DIXIE PRECAST

DIXIE PRECAST, INC.

Who says you can't get something for nothing?

It's the highest honor for those who have achieved the lowest of the low – zero defects, zero mistakes, zero problems, zero excuses. Conrail salutes the 99 companies who have surpassed the stringent standards of Conrail's Certified Quality Supplier Program. Nobody does it better.

CONRAIL CERTIFIED QUALITY SUPPLIERS

ABC Rail Corporation, Calera, AL • Alco Spring Industries Inc., Chicago Heights, IL • Allegheny Rail Products, Pittsburgh, PA • American Air Filter Co., Fayetteville, AR • American Steel Foundries, Alliance, OH; E. Chicago, IN • Anita Spring Water Co., Louisville, KY • Arkansas Steel Associates, Newport, AR • Brenco Inc., Petersburg, VA • Burke-Parsons-Bowlby Corp., DuBois, PA; Reedy, WV • Cardwell Westinghouse, Chicago, IL • Clark Industries Inc., Gilman, IL • Clark Filter, Lancaster, PA • Cleveland Track Material Inc., Cleveland, OH • Cushing Stone Co., Amsterdam, NY • Dixie Precast Inc., Austell, GA • Durox Company, Strongsville, OH • Emerald Hydraulics Inc., Springfield, OR • Exxon Company, U.S.A., Pittsburgh, PA • Fag Bearing Corp., Joplin, MO • Farr Company, West Conover, NC • FM Industries Inc., Fort Worth, TX • G.K.P. Enterprises Inc., Poland, IN • G.P. Fasteners & Industrial Supply Inc., Shoemakersville, PA • Goodyear Tire & Rubber Co., St. Mary's, OH • Griffin Wheel Company, Bessemer, AL; Keokuk, IA; Grove Port, OH • Hadady Corporation, Lansing, IL • Harmon Electronics Inc., Grain Valley, MO; Jacksonville, FL • Haynes Corporation, Naples, FL • Henry Miller Spring & Mfg. Co., Sharpsburg, PA • Huck Manufacturing Co., Waco, TX • Independent Cable Inc., Hudson, MA • Industry-Railway Suppliers Inc., Cleveland, OH • Interstate Diesel Service Inc., Cleveland, OH • ITW Shakerproof, Milwaukee, WI • Jasper Engines & Transmissions, Jasper, IN • John S. Lane & Son Inc., Westfield, MA • K&G Machine Co., Euclid, OH • Kaydon Ring & Seal Inc., Baltimore, MD • Kerr-McGee Chemical Corp., Avoca, PA; Indianapolis, IN • Kershaw Manufacturing Co., Montgomery, AL • Keystone Rail Equipment Co., Camp Hill, PA • Keystone Spikes Corp., Lebanon, PA • Koppers Industries Inc., Montgomery, PA • Korody-Colyer Corp., Compton, CA • Littell Steel Co., New Brighton, PA • McConway & Torley Corp., Kutztown, PA; Pittsburgh, PA • Mellott Wood Preserving Co., Needmore, PA • Miner Enterprises Inc., Geneva, IL • Monroe Truck Equipment, Monroe, WI • Moseback Manufacturing Co., Pittsburgh, PA • Motor Coils Manufacturing Co., Braddock, PA • National Castings Inc., Melrose Park, IL • National Electric Gate Co. Inc., Pooler, GA • New Enterprise Stone & Lime Co. Inc., Roaring Spring, PA • North American Phillips Lighting Corp., Richmond, KY • The Okonite Company, Ashton, RI • Orgo-Thermit Inc., Lakehurst, NJ • Pandrol Incorporated, Bridgeport, NJ • Pennsylvania Steel Technologies, Steelton, PA • Portec Inc., Huntington, WV • Pottstown Trap Rock Quarries Inc., Douglassville, PA • Pulse Electronics Inc., Rockville, MD • Radiac Abrasives, Salem, IL • Rail Bearing Service Inc., Knoxville, TN • Rail Car Specialties Inc., Omaha, NE • Roller Bearing Industries Inc., Elizabethtown, KY • Safetran Systems Corp., Minneapolis, MN, Rancho Cucamonga, CA • Sargent & Greenleaf Inc., Nicholasville, KY • Service Supply Co. Inc., Indianapolis, IN • SKF USA Inc., Hanover, PA • Spike Industries Inc., Salem, OH • Standard Steel, Burnham, PA • Strato Inc., Piscataway, NJ • Tamaqua Cable Products, Schuylkill Haven, PA • Thermoid HBD Industries Inc., Bellefontaine, OH • Thrall Car Manufacturing Co., Chicago Heights, IL; Winder, GA • The Timken Company, Canton, OH • Touchstone Inc., Jackson, TN • Triangle Engineered Products, Bensenville, IL • Tyler Mountain Water Co., Poca, WV • Unit Rail Anchor Co., Atchison, KS • United Steel & Fasteners Inc., Itasca, IL • United Knitting Machine Co., Kulpsville, PA • Victaulic Company of America, Easton, PA • Warner Company, Birdsboro, PA • Wayne Steel Inc. (Shiba Rebar), Wooster, OH • Welding Improvement Inc., Lisbon, OH • Western-Cullen-Hays Inc., Chicago, IL • Western Tar Products Corp., Terre Haute, IN • Westinghouse Air Brake Co., Greensburg, PA

CSX TRANSPORTATION

DIXIE PRECAST, INC.

FOUNDATIONS

Austell, Georgia

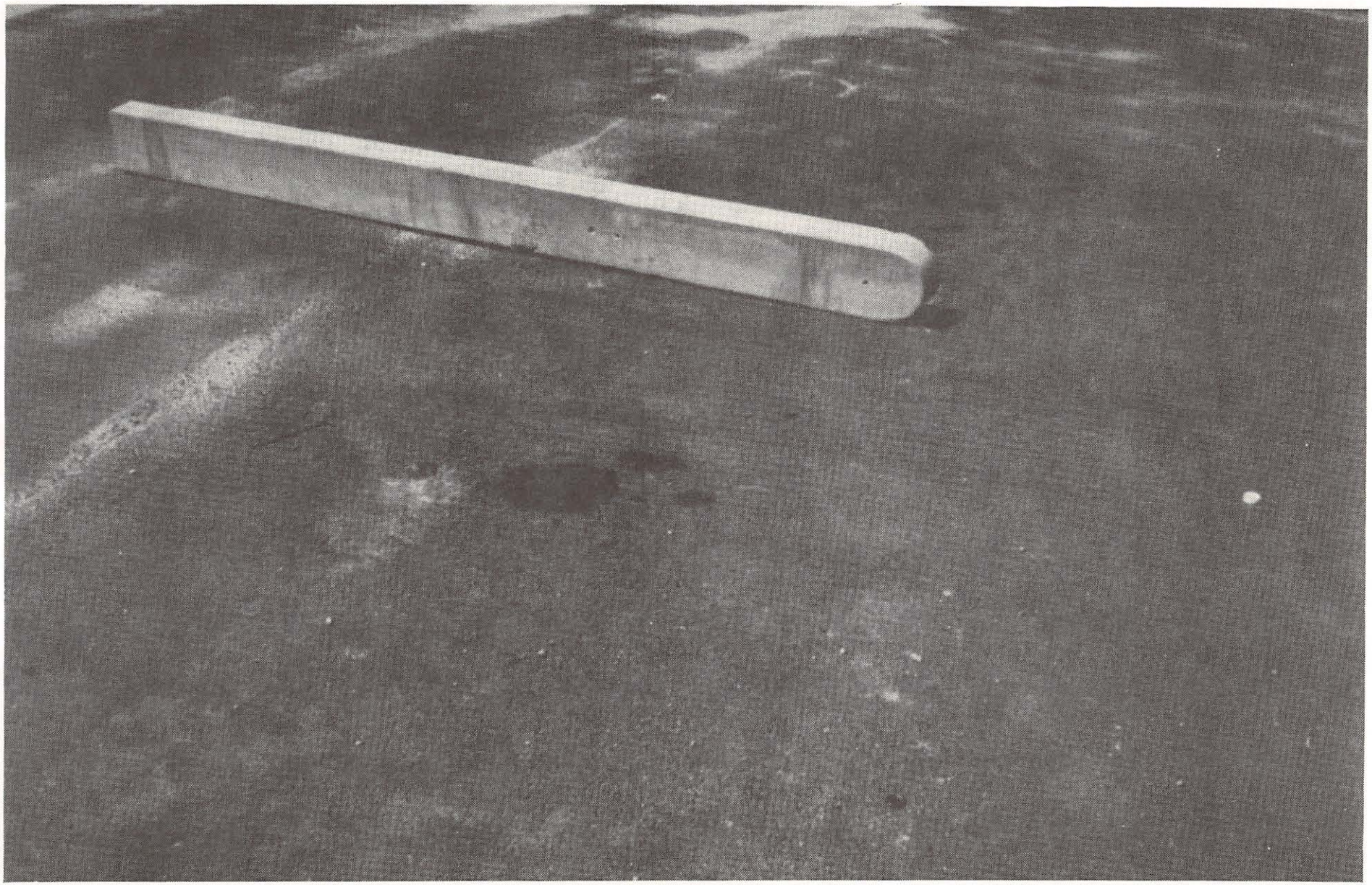
has been certified to have a quality system in place which conforms to the Association of American Railroads, "Specification for Quality Assurance", M-1003 and therefore has fulfilled this requirement of the CSX Transportation Supplier Qualification Process, as verified on the 16th day of November in the year 1994 through November 1996.

QUALITY MANAGEMENT SYSTEM

Vice President
Supply & Services Management

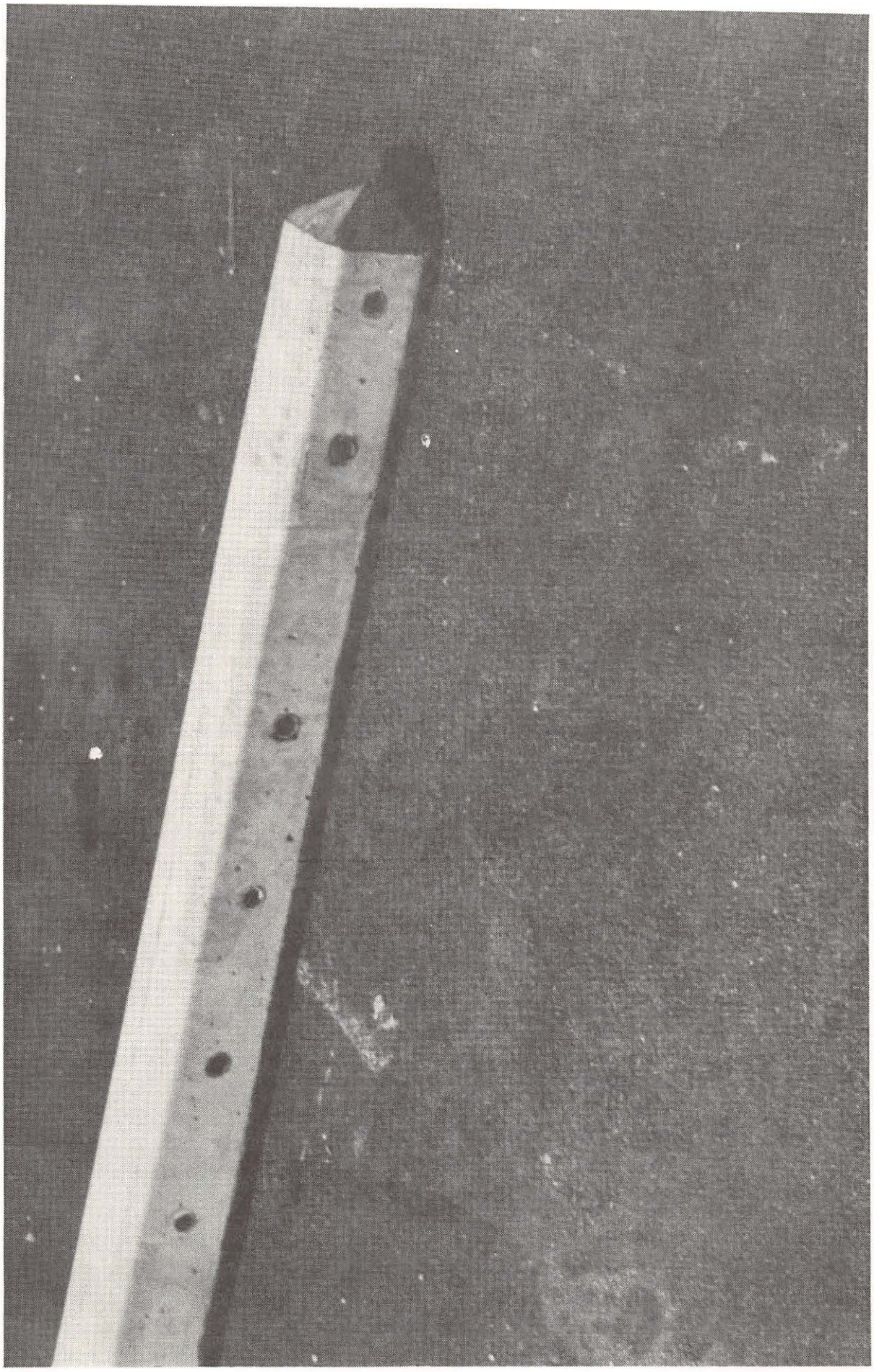
Senior Vice President
Engineering & Mechanical

DP AP-761
Installed

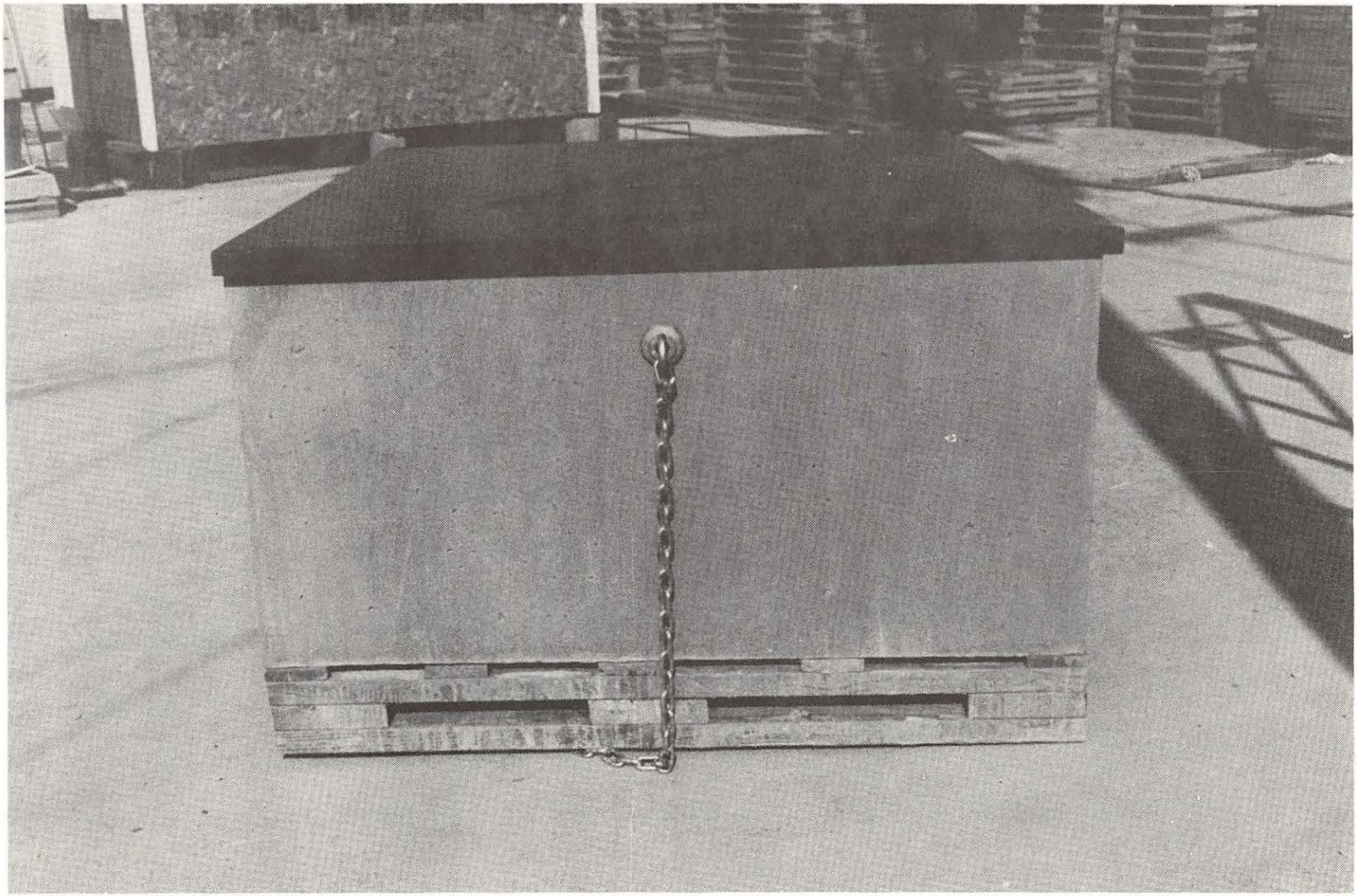


Mile Post

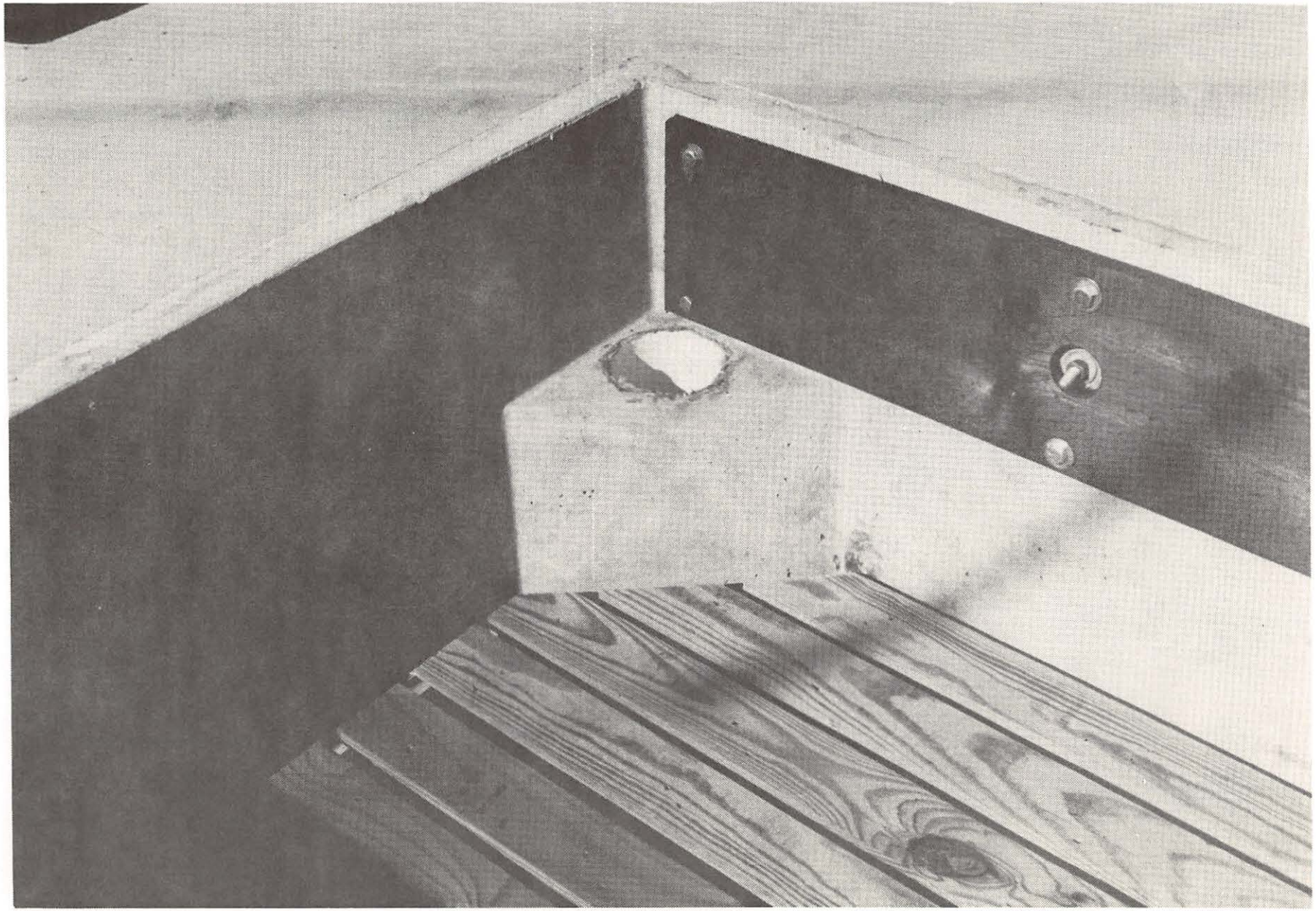
Height 9'-0" X 4" X 8"



AAR-12812 Post
Height 12'-0"

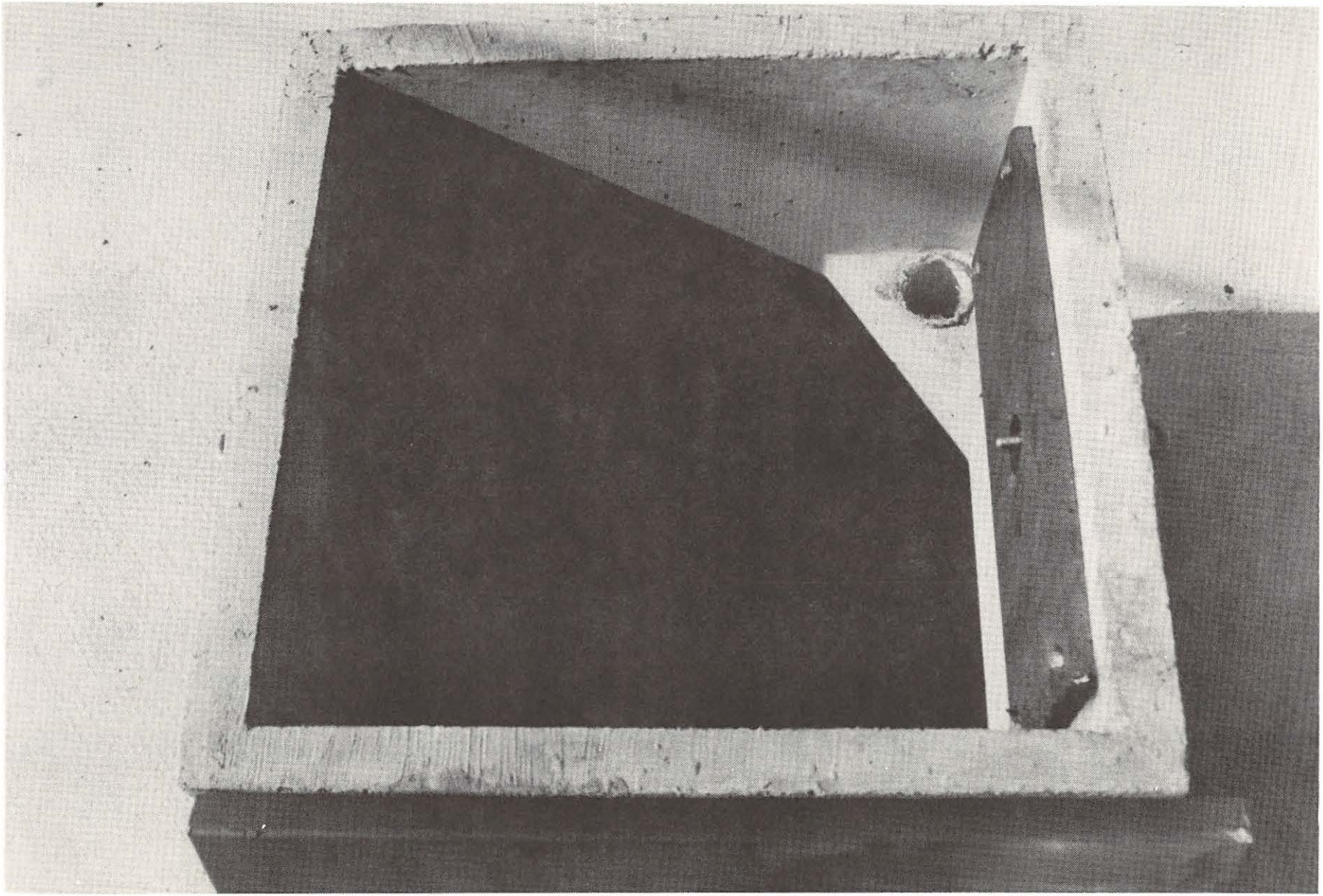


#2 Battery Box
16 cell
Height 25"
Width 47" X 59"



#2 Battery Box

Interior, showing cable hole 5"



#5 Battery Box

6 cell showing interior with cable hole 3"
Height 27".
Width 30" X 30"

Professional Service Industries, Inc.
Pittsburgh Testing Laboratory Division

TESTED FOR: Dixie Precast
4170 Angelette Drive
Austell, Georgia 30001

PROJECT: Pull Test

DATE: February 2, 1990

OUR REPORT NO.: 244-08009-01

REMARKS: The load test on samples submitted to us has been completed. The results of the tests are listed below:

RESULTS

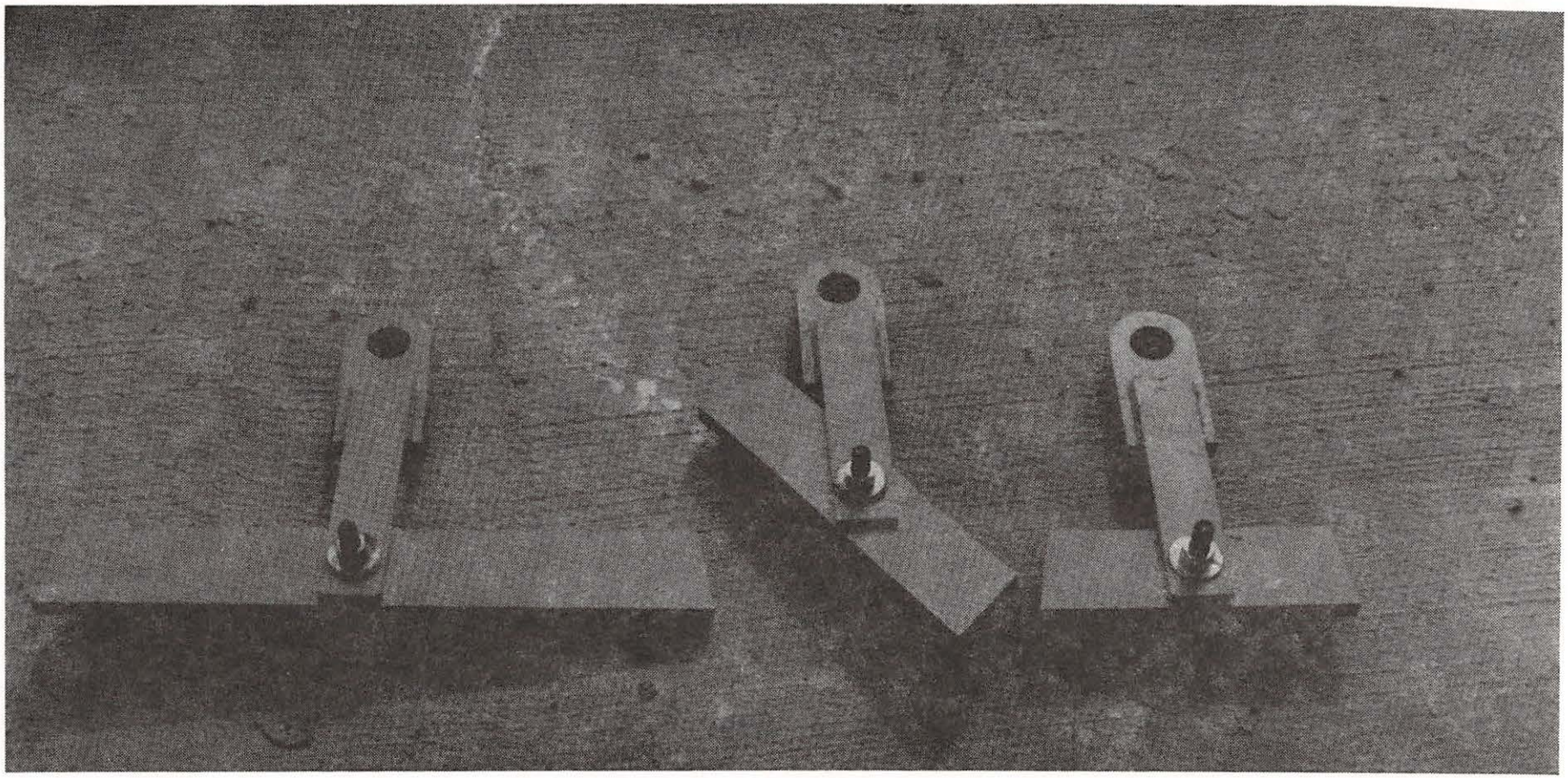
Item Description	Ultimate Load lbs.		
#1 Threaded Socket - long end	11,770		
#2 Threaded Socket - long end	12,010		
#3 Threaded Socket - long end	11,620	Average	11,800
#4 Threaded Socket - round end	8,450		
#5 Threaded Socket - round end	8,110		
#6 Threaded Socket - round end	8,460	Average	8,340
S-2 Lifting Device	62,650	Failed @ bolt	

Test performed by Randy Kirkland, Metallurgical Laboratory

Respectfully submitted,

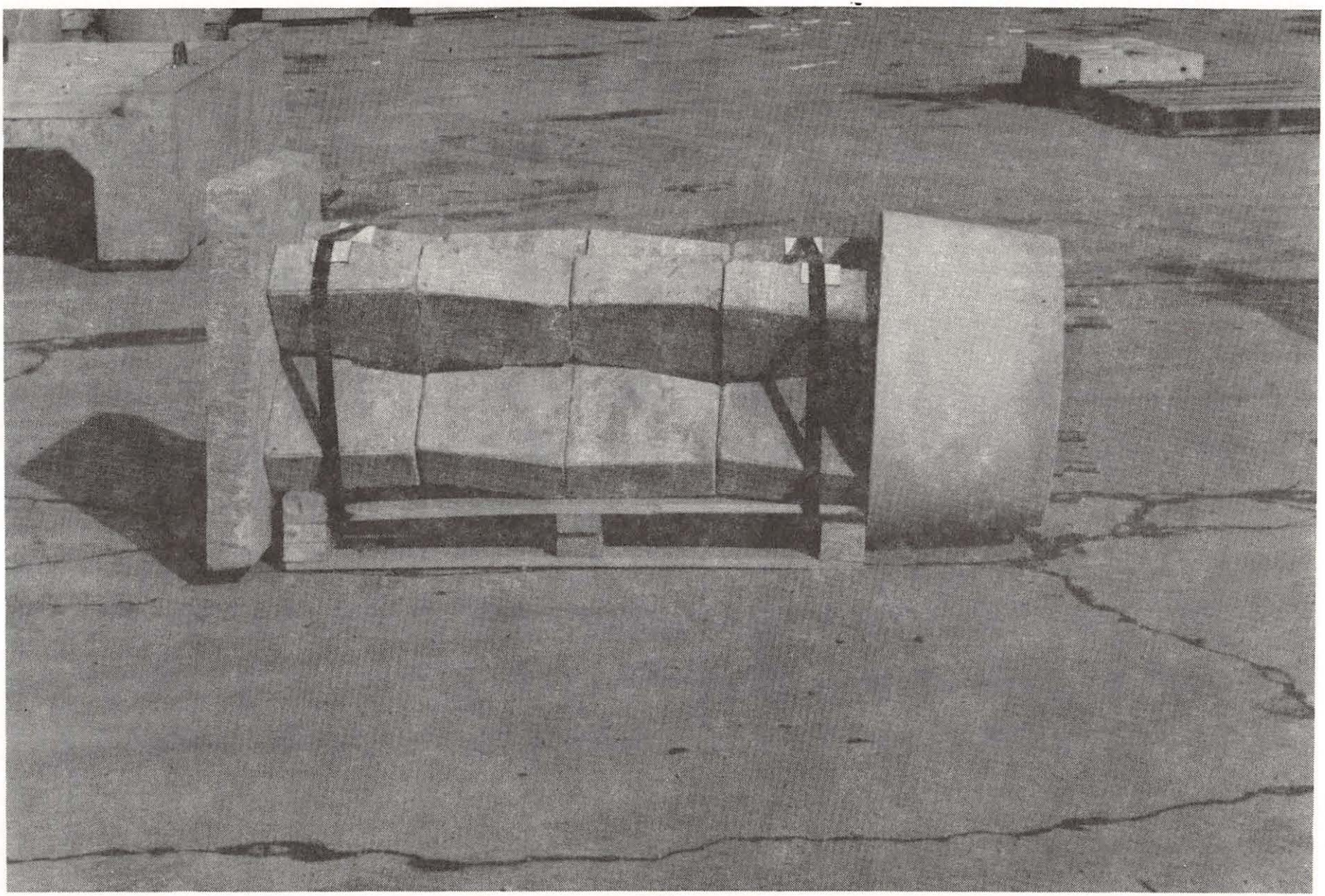
PROFESSIONAL SERVICE INDUSTRIES, INC.

Gary Uptain
Division Manager



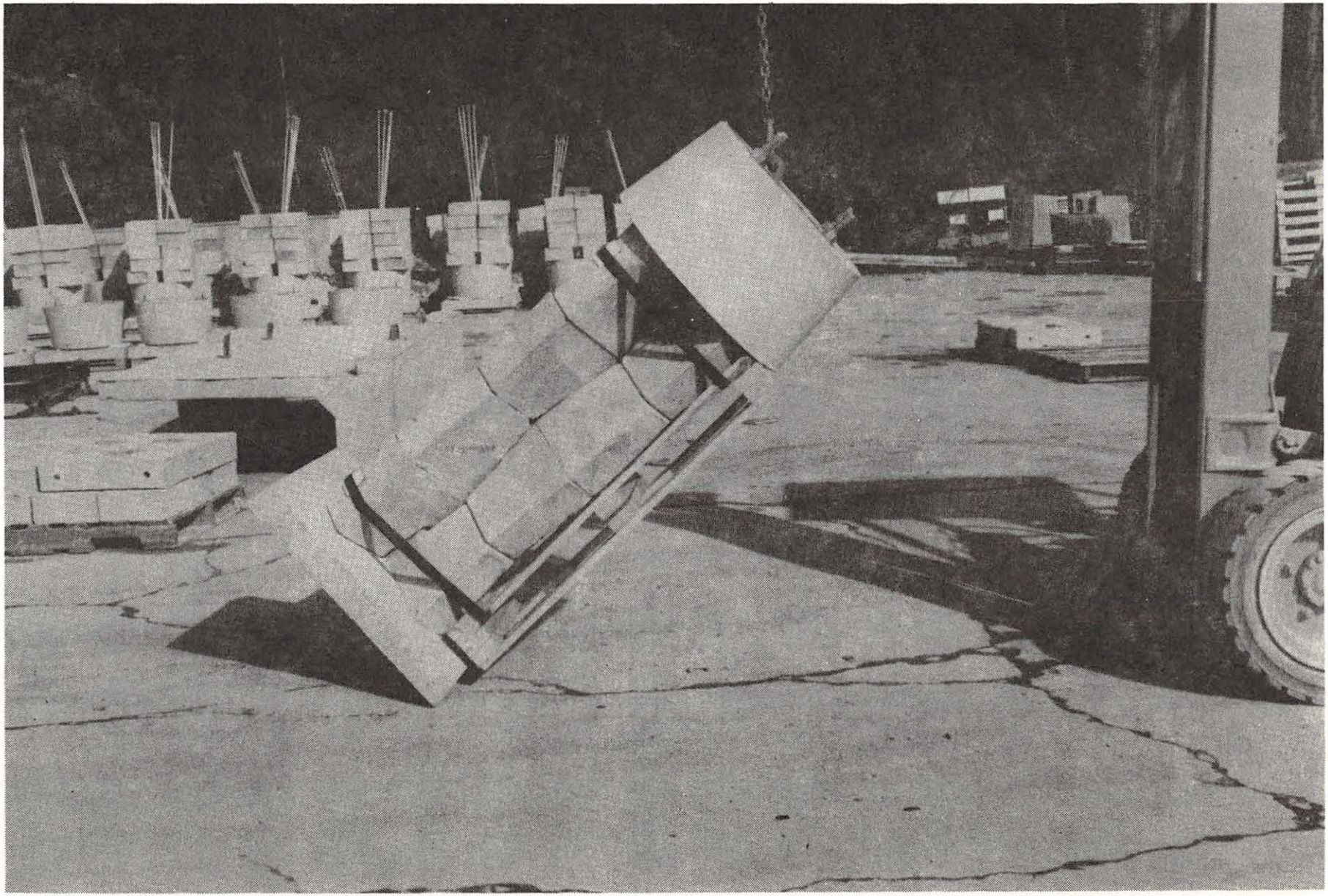
Setting Device For S-10-3WS Top
Setting Device for Assembled S-2
Setting Device For Assembled S-1

Patent Pending



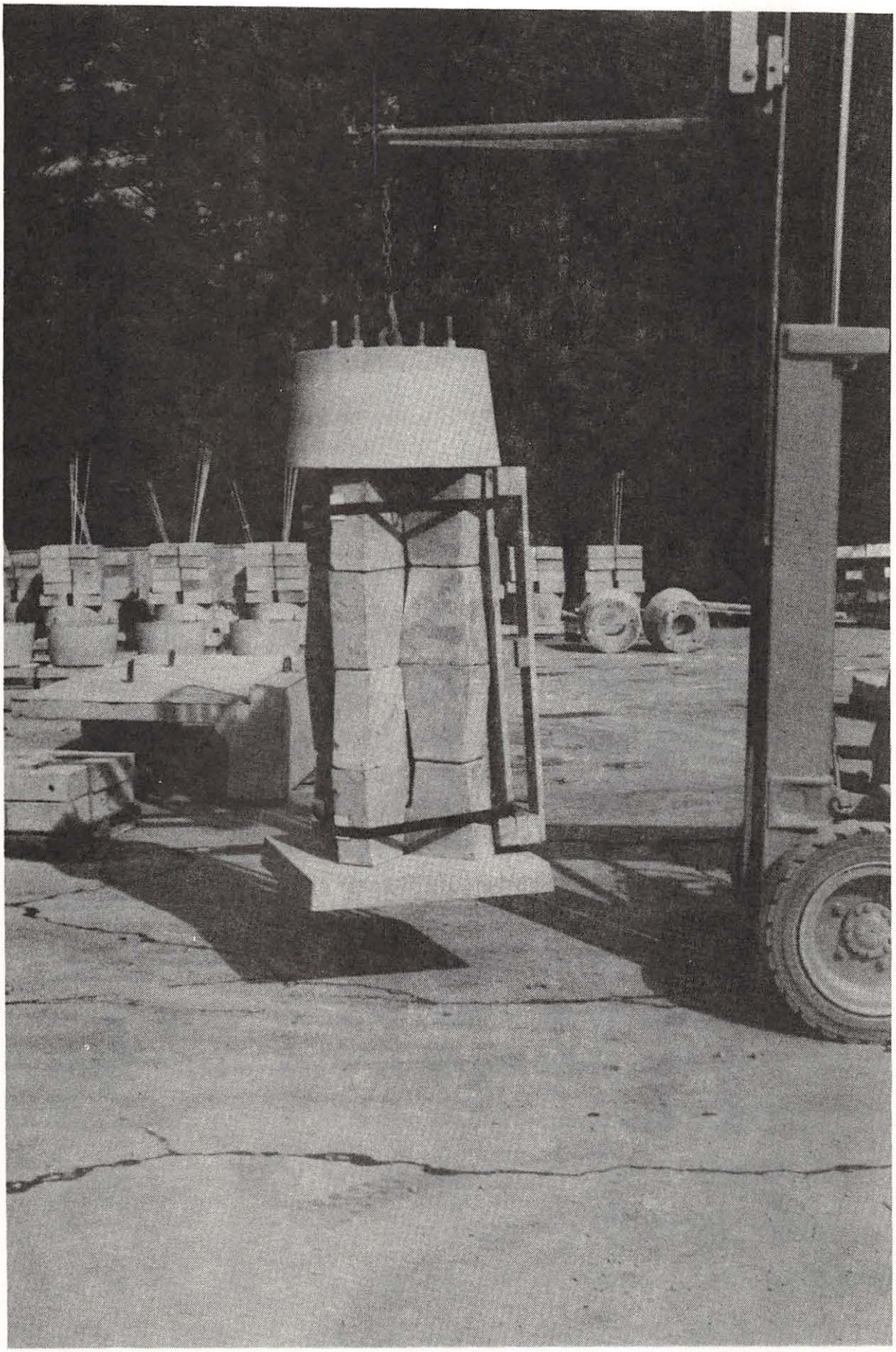
S-2

4'-6", 5'-6", 6'-6" Assembled Palitized



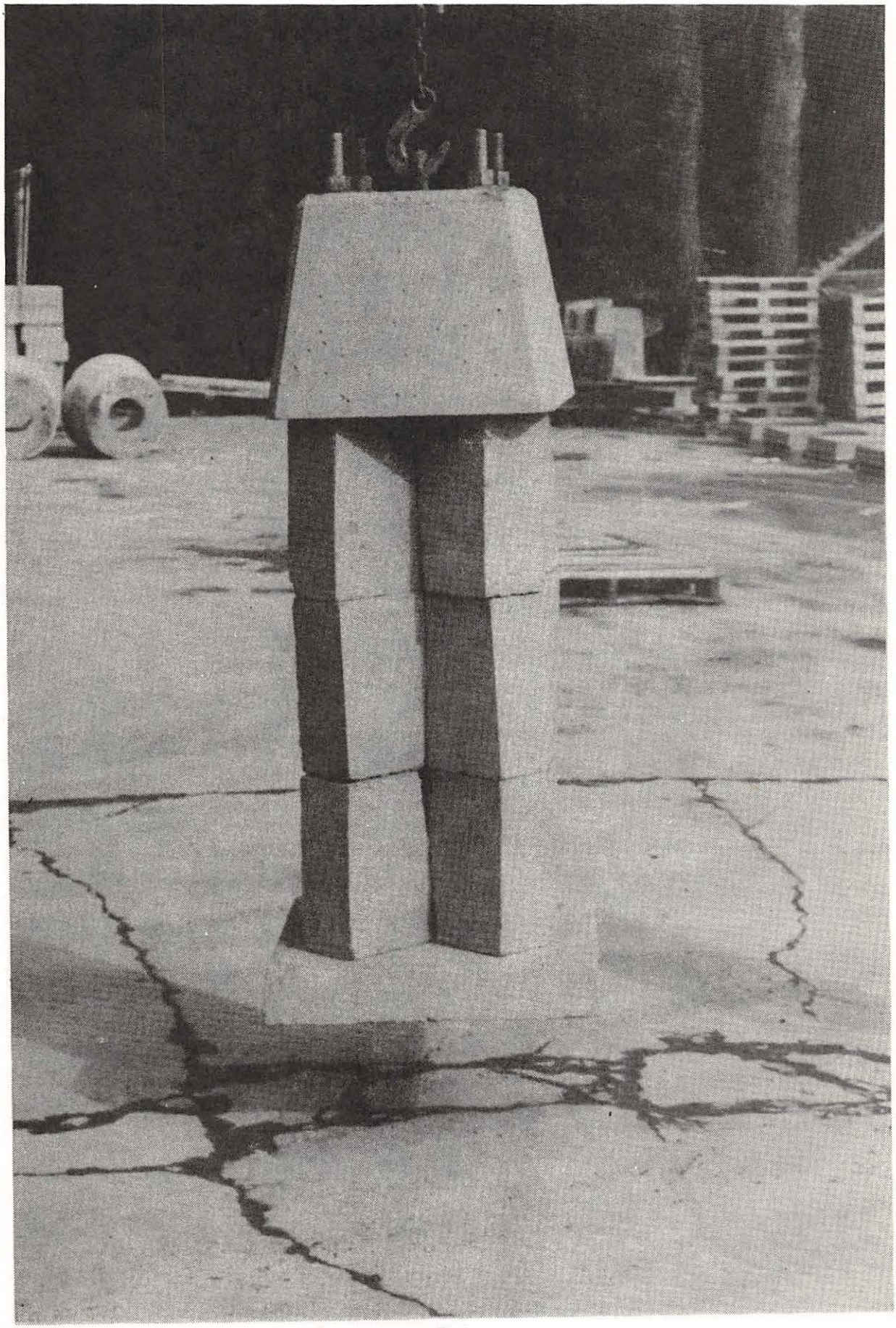
S-2

4'-6", 5'-6", 6'-6" Assembled Unit Being Lifted W/Setting Device



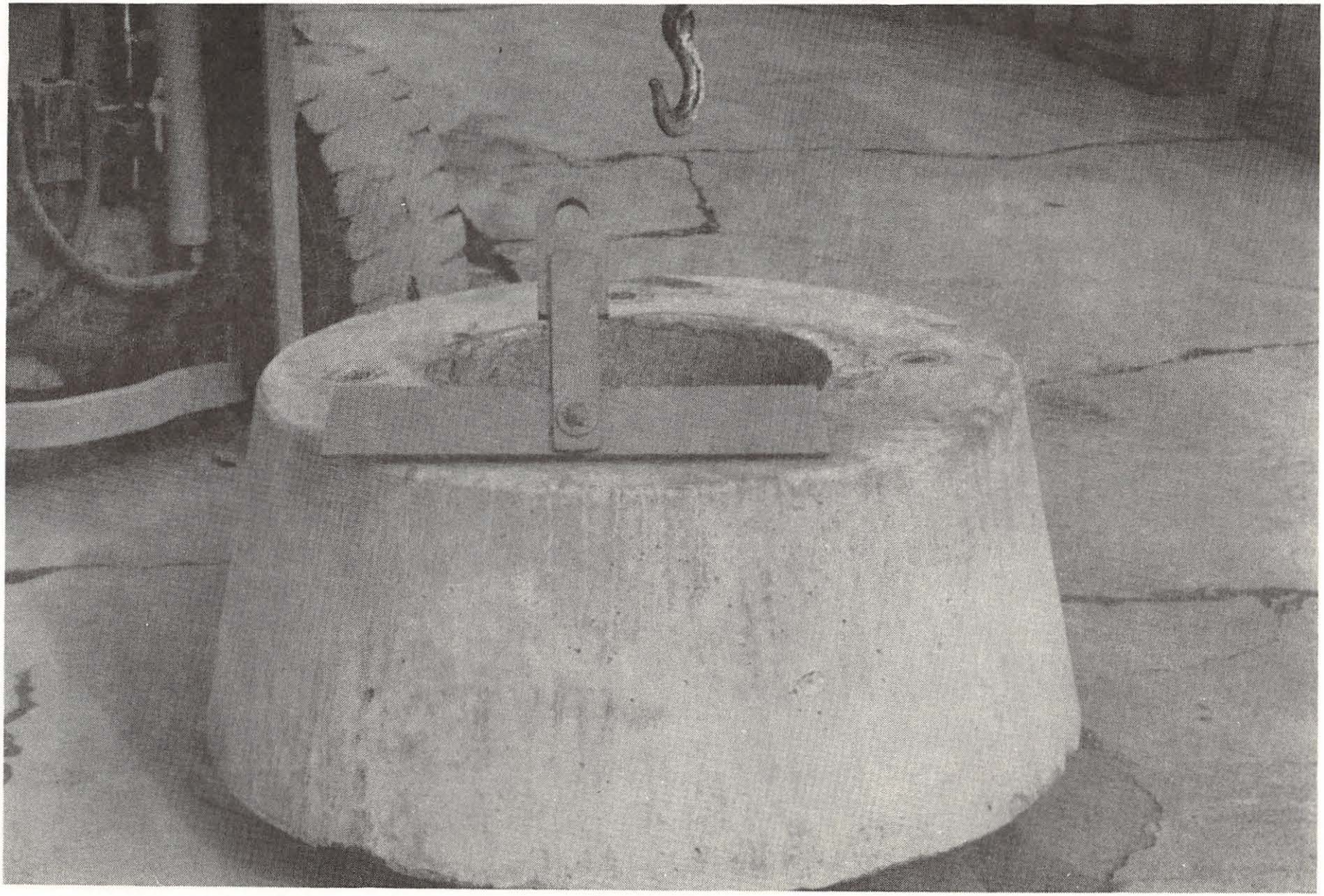
S-2

4'-6", 5'-6", 6'-6" Assembled Unit Being Lifted for Installation W/Setting Device

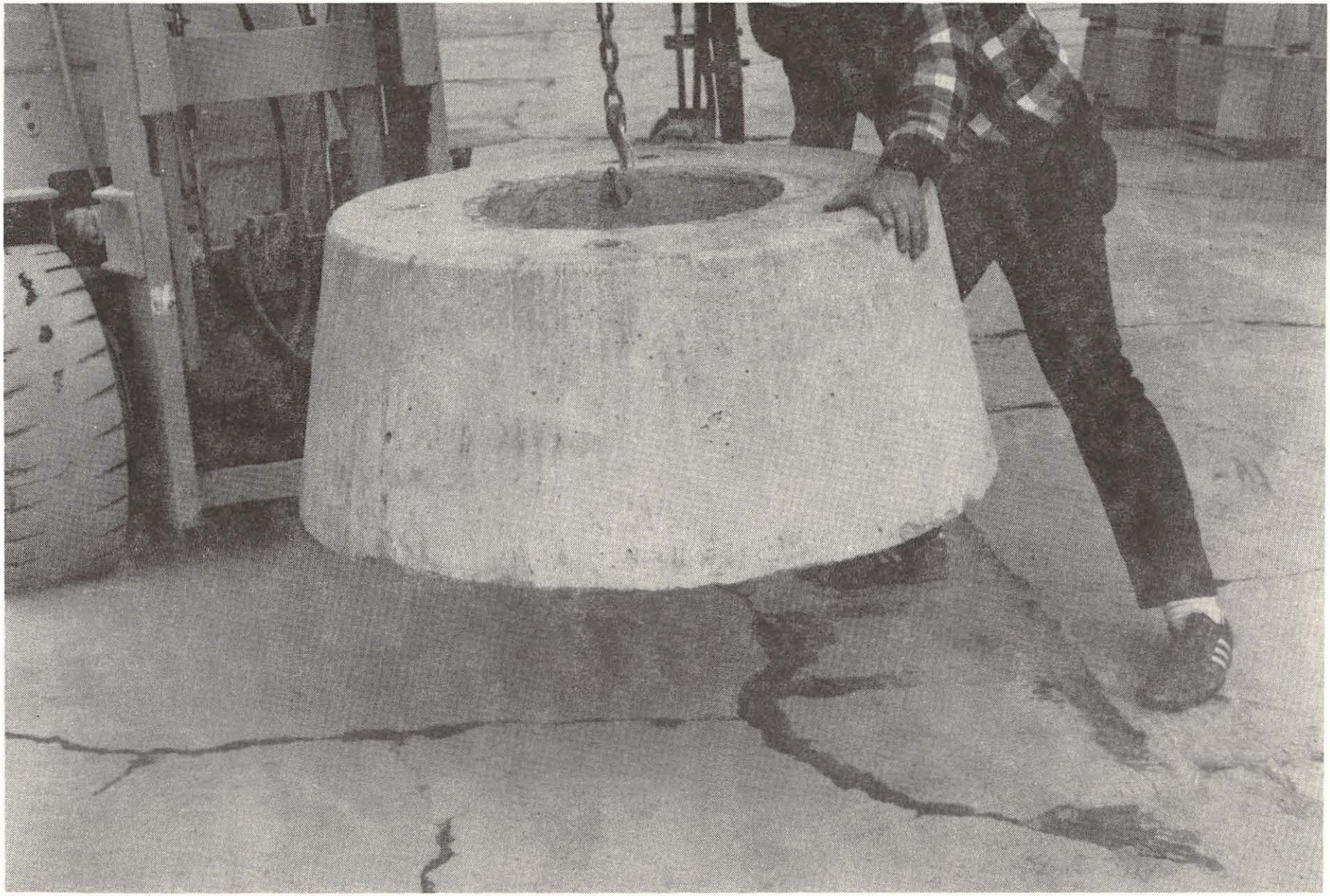


S-1

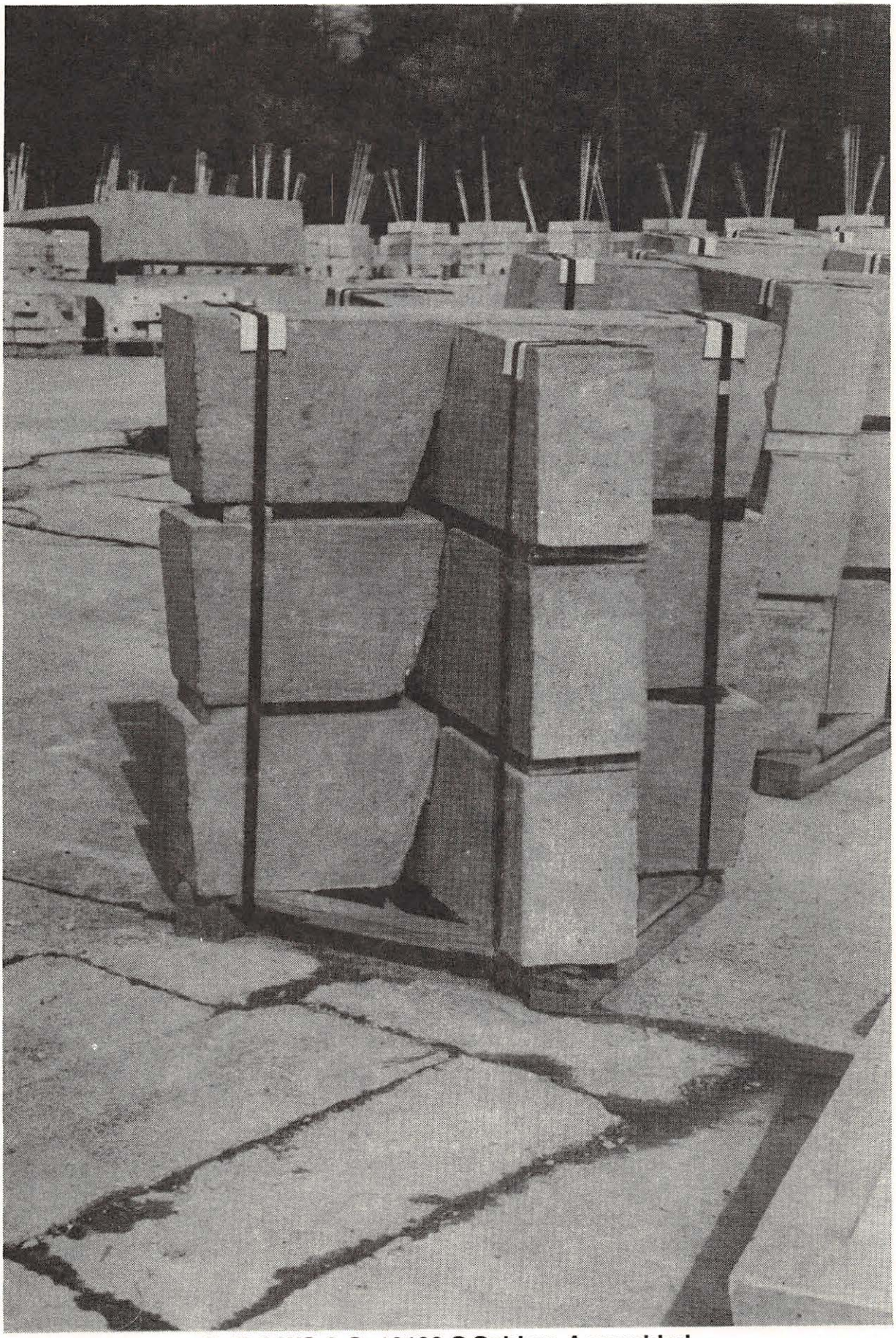
3'-6", 4'-6" Assembled Unit Being Lifted for Installed W/Setting Device



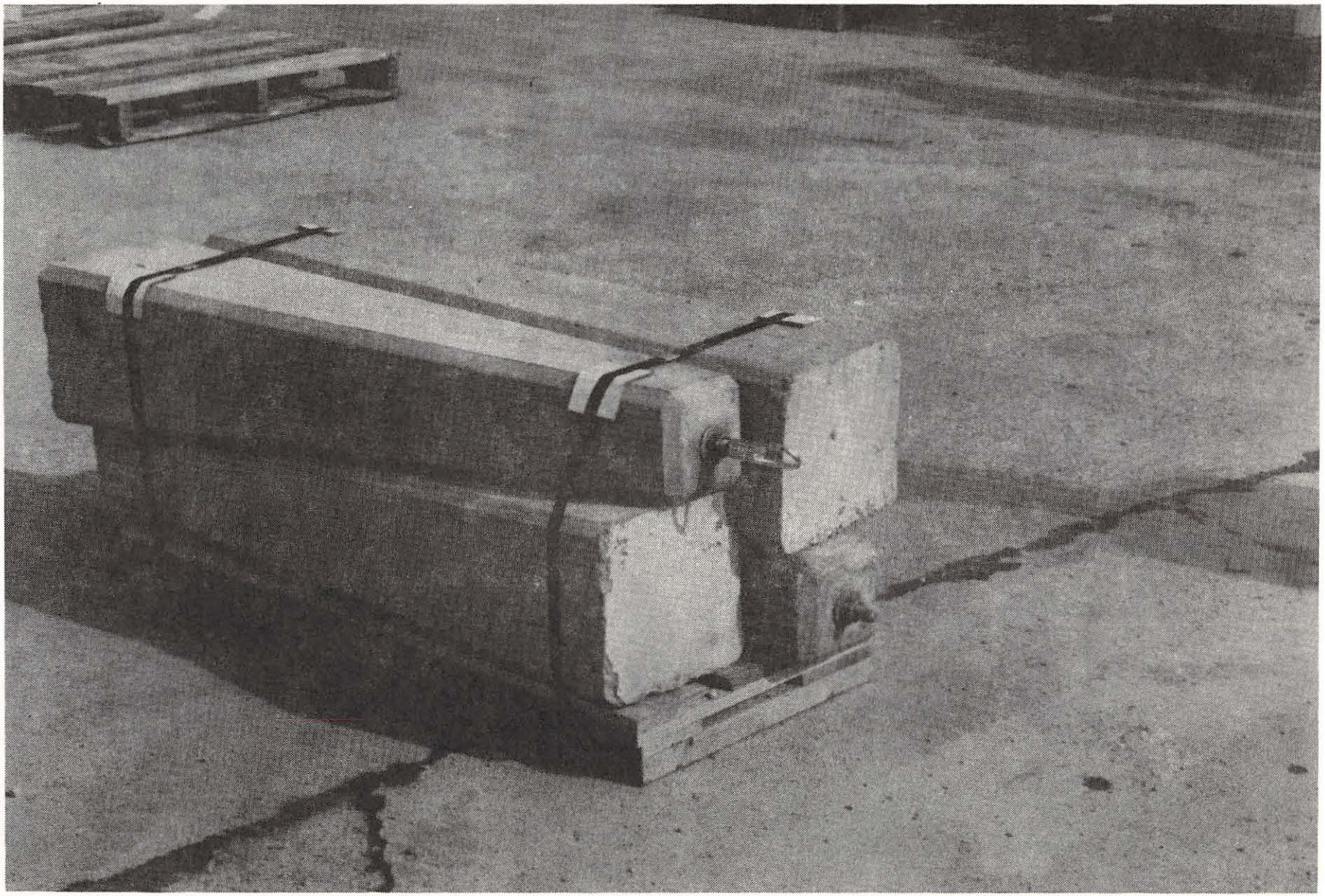
S-10-3WS
Lifting Device For Top Only



S-10-3WS
8'-5" With Setting Device

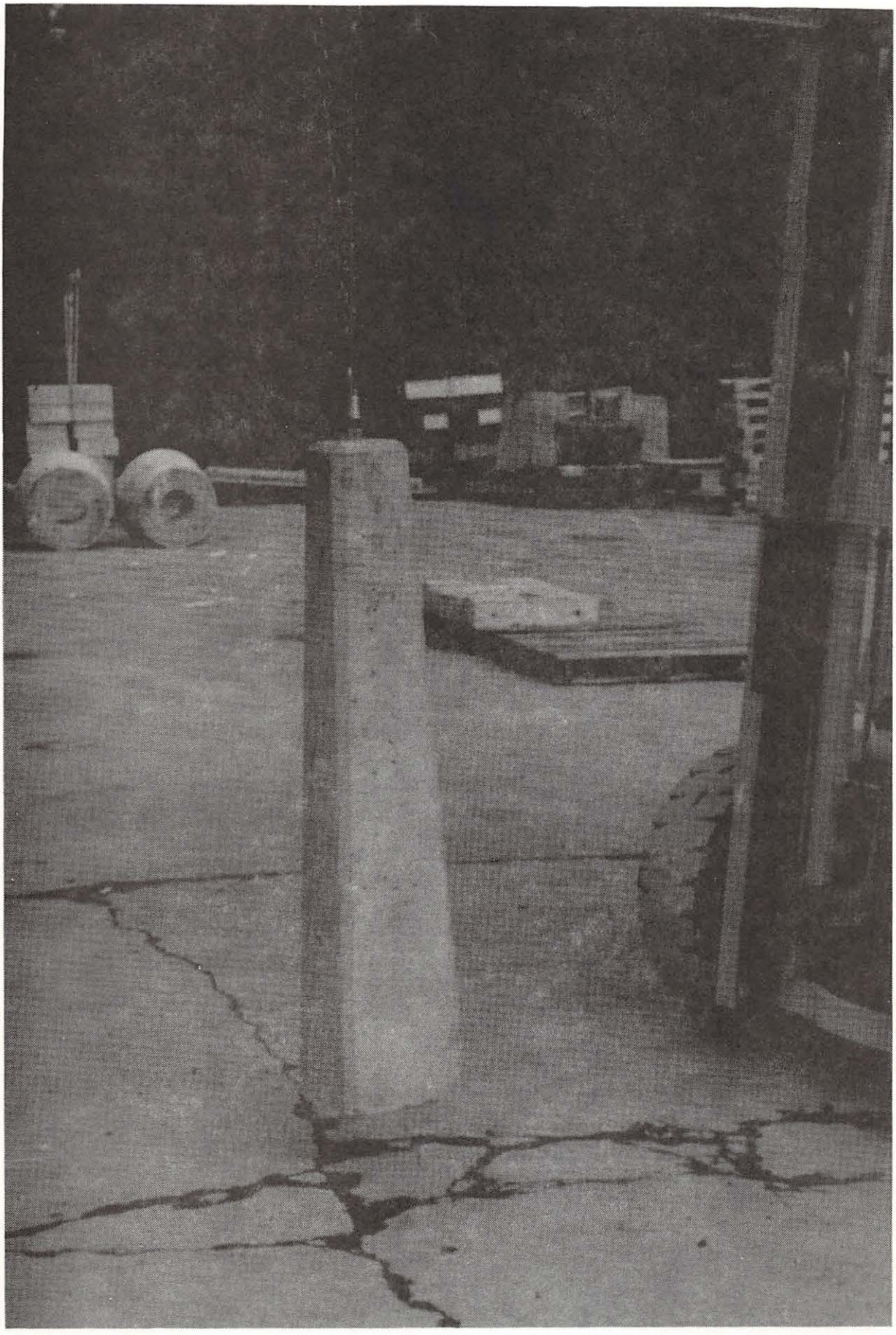


S-10-3 WS & S -19199-S Spiders Assembled

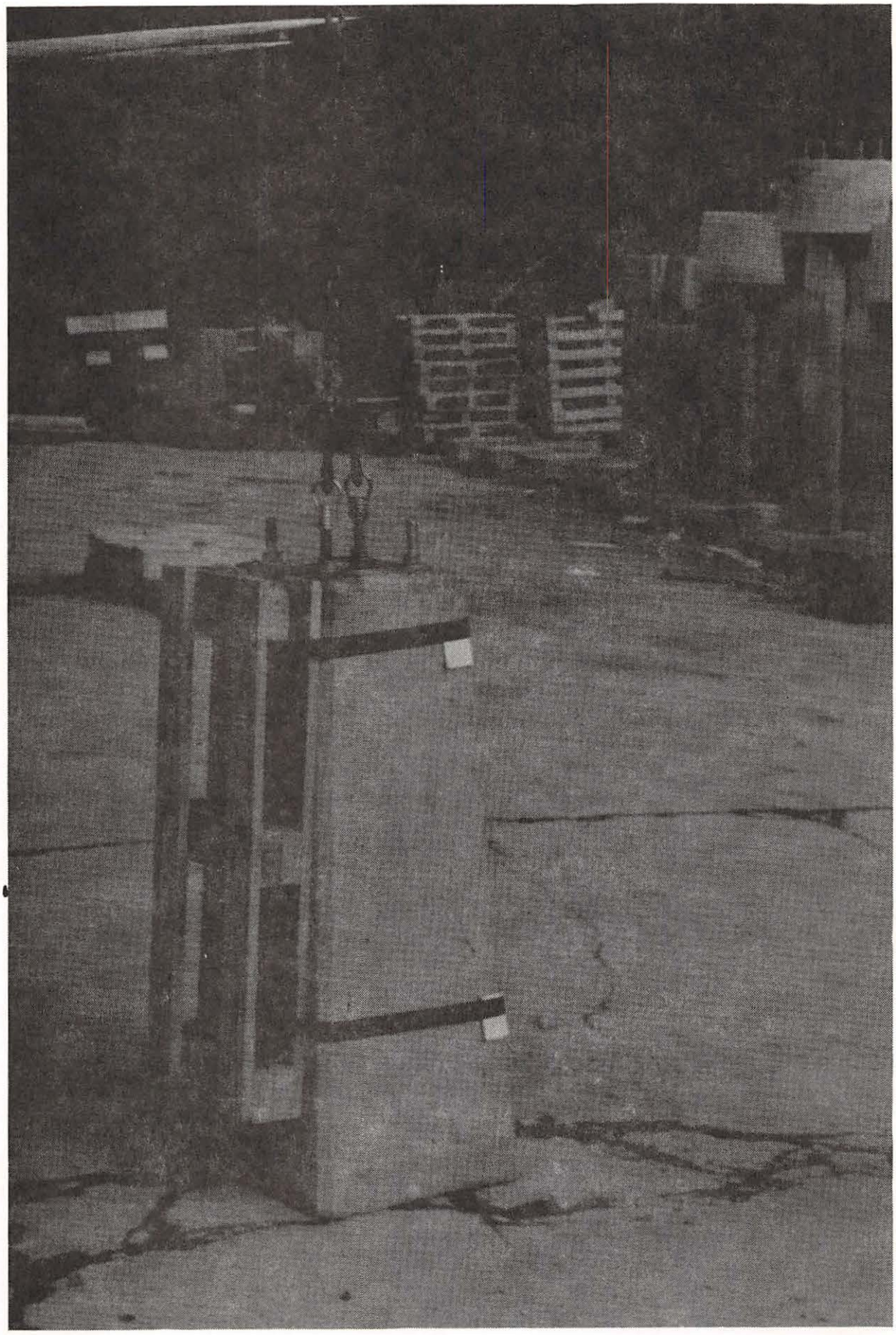


AP-607

Relay House Piers W/1. Setting Device Per Set



AP-607
Relay House Pier Being Lifted W/Setting Device



"H" DWARF SIGNALS
Being Lifted W/Setting Devices

Mt. Airy Railway Supply
17330 Frederick Road
Mount Airy, Maryland 21771
(301) 831-7833
FAX (301) 831-7834

May 20, 1991

Mr. Ben Feely, Purchasing Agent
Union Switch and Signal Inc.
5800 Corporate Drive
Pittsburgh, Pa. 15237

Dear Mr. Feely:

In line with your conversation with Mr. Angelette, we enclose herewith "Product Catalogue".

Prices are quoted upon request.

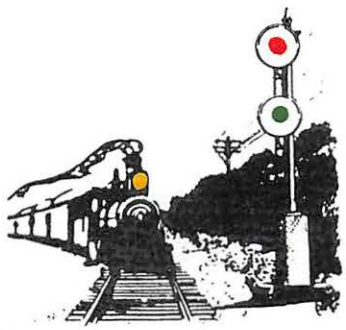
Should additional information be required, please contact Mr. Angelette, 404-944-1930, FAX 404-944-9136.

Thank you for your interest in our products.

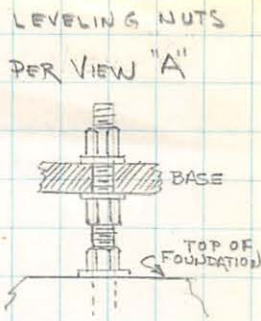
Sincerely,

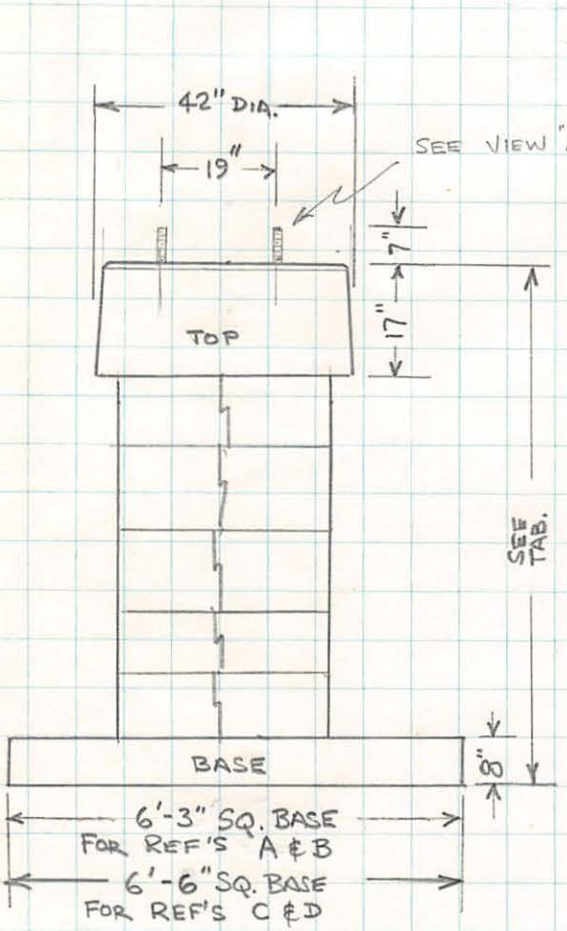
James L. Everett
Representing
Dixie PreCast, Inc.

JLE:ke

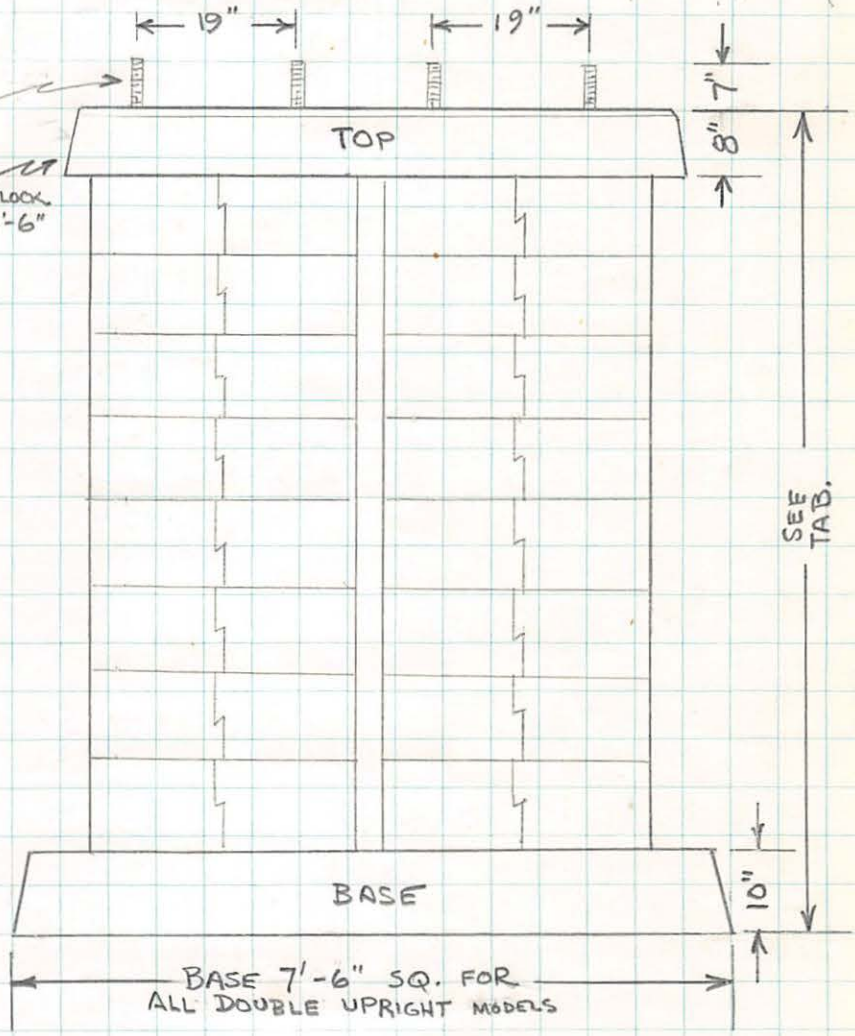


PRECAST CONCRETE SECTIONAL FOUNDATIONS FOR MODEL CASWT CANTILEVERS ORDERING INFORMATION





SINGLE UPRIGHT



DOUBLE UPRIGHT

FOUNDATIONS ADHERE TO AASHTO SPECIFICATIONS

ORDER BY PART NUMBER & MODEL NUMBER OF CANTILEVER

(*) EACH FOUNDATION SUPPLIED WITH (3) leveling nuts & WASHER FOR EACH ANCHOR BOLT

REF.	PART NUMBER	HEIGHT & WEIGHT	DESCRIPTION	ANCHOR BOLTS
A	S-10-1 (CP-1246)	8060 LBS 7'-1" (H)	PRECAST FOUNDATION, single upright for arm lengths of 8-16 FT. Models: CASWT 8-9-10 CASWT 11-12-13 CASWT 14-15-16	WITH (4) 1" Φ BOLTS (*)

REF.	PART NUMBER	HEIGHT & WEIGHT	DESCRIPTION	ANCHOR BOLTS
B	S-10-1Q (CP-1246)	8140 LBS 7'-1" (H)	PRECAST FOUNDATIONS, single upright for arm lengths of 17 TO 22 FT. Models: CASWT 17-18-19 CASWT 20-21-22	WITH (4) 1¼" ϕ BOLTS (*)
C	S-10-3W (CP-1246)	8600 LBS 7'-1" (H)	PRECAST FOUNDATIONS, single upright for arm lengths of 23 TO 28 FT. Models: CASWT 23-24-25 CASWT 26-27-28	WITH (4) 1½" ϕ bolts (*)
D	S-10-3W (CP-1246)	9200 LBS 8'-1" (H)	PRECAST FOUNDATION, SINGLE UPRIGHT for arm lengths of 29 TO 31 FT. Model: CASWT 29-30-31	WITH (4) 1½" ϕ bolts (*)
E	S-19-33 (CP-1247)	16,980 LBS 7'-6" (H)	PRECAST FOUNDATION, double upright for arm lengths of 32 TO 34 FT. Model: CASWT 32-33-34	WITH (8) 1¼" ϕ bolts (*)
F	S-19-36 (CP-1247)	18,165 LBS 8'-6" (H)	PRECAST FOUNDATION, double upright for arm lengths of 35 TO 37 FT. Model: CASWT 35-36-37	WITH (8) 1¼" ϕ bolts (*)
G	S-19-40 (CP-1247)	19,520 LBS 9'-6" (H)	PRECAST FOUNDATION, double upright for arm lengths of 38 TO 40 FT. Model: CASWT 38-39-40	WITH (8) 1½" ϕ bolts (*)

C&S POLICY MEMO 7

SUBJECT: Foundations for Cantilevers

Foundations for cantilevers shall be fabricated with materials shown on attached drawings for specific cantilever lengths.

Top of foundation shall be level with the surface of the roadway and not more than four (4) inches above the surface of the ground. Area around foundation shall be backfilled as necessary to meet the four inch (4") requirement.

Foundations shall be located in accordance with the applicable requirements of Part VIII of the Manual on Uniform Traffic Control Devices (MUTCD) entitled Traffic Control Systems for Highway-Railroad Grade Crossings .

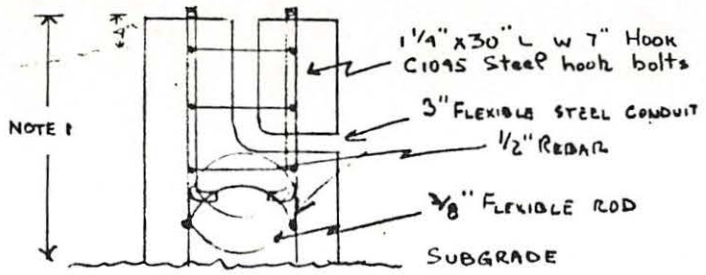
T. Trovato

Office of Chief Engineer
Communications and Signal
North Billerica, MA

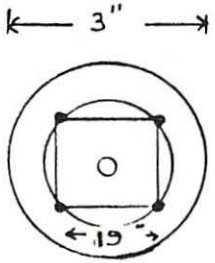
November 5, 1981

TD -

Rev 3-18-81



SECTION VIEW



PLAN VIEW

BILL OF MATERIAL	
AMT REQ'D	DESCRIPTION
4	1 1/4" X 30" w 7" HOOK BOLTS WITH NUTS AND WASHERS, GALV C1045 STEEL
20'	1/2" REBAR STEEL
10'	3" FLEXIBLE STEEL CONDUIT
SEE NOTE 1	PLAIN STEEL R-NO-BANDS PIPE (PENN CULVERT CO.)
15'	3/8" Flexible Steel Rod
	CONCRETE 3000 LB PSI
3 CY	8 FOOT PIPE
3 CY	10 FOOT PIPE
4 CY	12 FOOT PIPE

NOTE 1 PIPE AVAILABLE IN TWO (2) FOOT INCREMENTS. NOMINAL 8 FOOT LENGTH USED. LENGTH MAY BE INCREASED TO SUIT LOCAL CONDITIONS

NOTE 2 COMPACT CONCRETE WHILE BEING POURED WITH HAND TAMPER

BOSTON & MAINE CORP.

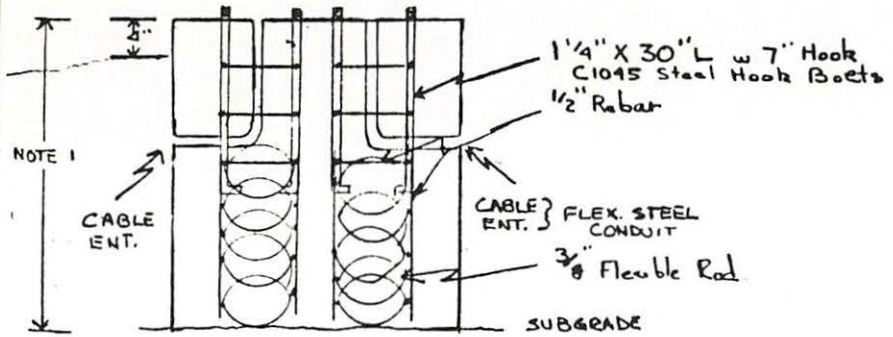
TYPICAL FOUNDATION PLAN FOR CANTILEVER SIGNALS 9' TO 30'

OFFICE OF CHIEF ENGR. C&S
NO. BILLERICA MA

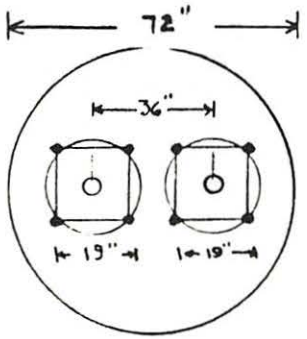
D -

Rev. 3-18-81

Rev 9-15-82



SECTION VIEW



PLAN VIEW

BILL OF MATERIAL	
AMT. REQ	DESCRIPTION
8	1 1/4" X 30" w 7" HOOK BOLTS WITH NUTS AND WASHERS, GALV. C1045 STEEL
60'	1/2" REBAR STEEL
10'	3" FLEXIBLE STEELCONDUIT
SEE NOTE 1	PLAIN STEEL, R-NO BANDS PIPE (PENN CULVERT CO.)
50'	3/8" Flexible Steel Rod
	CONCRETE, 3000LB PSI
9 cy	8 FOOT PIPE
11 cy	10 FOOT PIPE
13 cy	12 FOOT PIPE

NOTE 1 PIPE AVAILABLE IN TWO(2) FOOT INCREMENTS NOMINAL 8 FOOT LENGTH. LENGTH MAY BE INCREASED TO SUIT LOCAL CONDITIONS

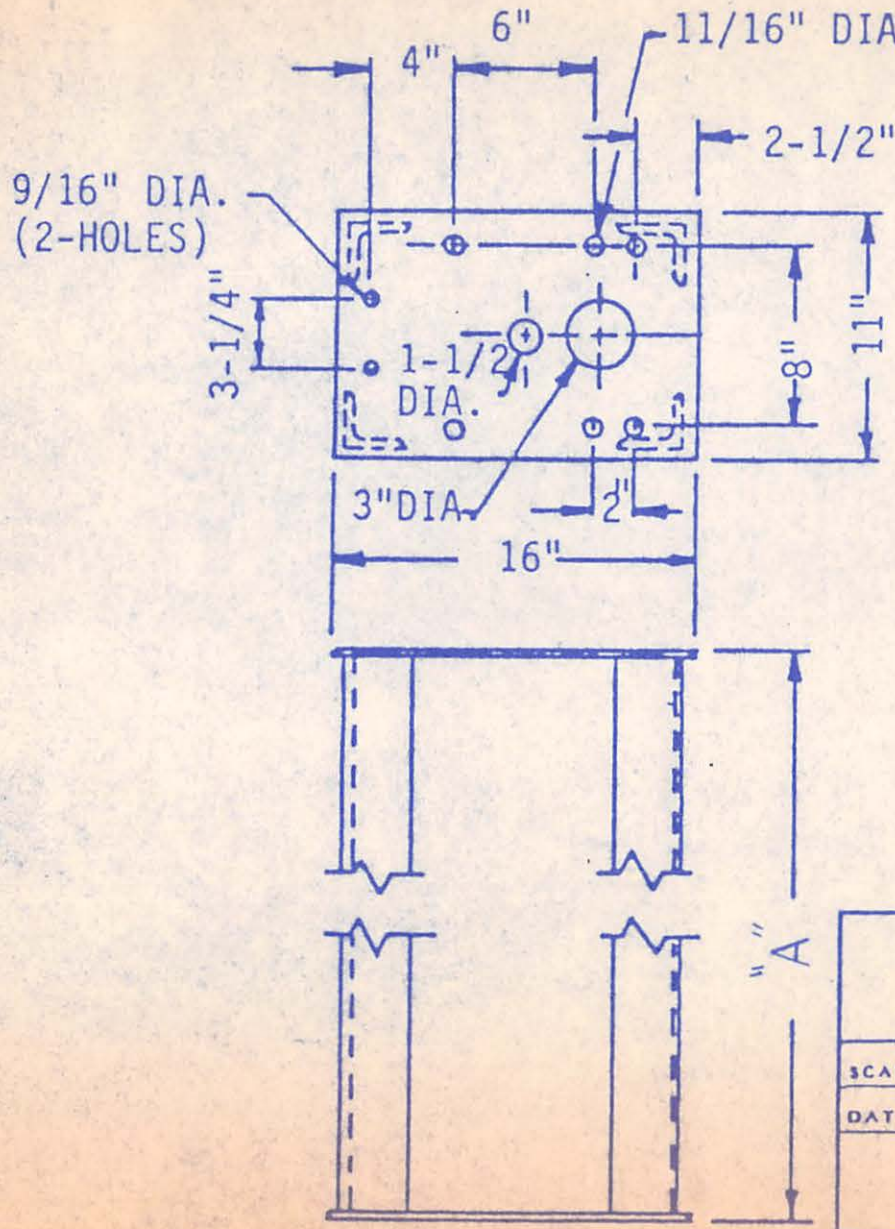
NOTE 2 COMPACT CONCRETE WHILE BEING POURED WITH HAND TAMPER

BOSTON & MAINE CORPORATION

TYPICAL FOUNDATION PLAN FOR CANTILEVER SIGNALS 32' TO 40'

NOT TO SCALE

OFFICE OF CH. ENGR. C&S
NO. BILLERICA MA



PART NO.	"A"
271401	36"
271403	30"

MATERIAL: $\frac{1}{4}$" PL H.R.S.
$\frac{1}{4}$" X 2$\frac{1}{2}$" X 2$\frac{1}{2}$" H.R.S.

FINISH: HOT DIP GALVANIZE

PREMIER PRODUCTS, INC.
7404 Grade Lane • P.O. Box 32038 • Louisville, KY 40232

SCALE:	APPROVED BY	DRAWN BY
DATE:		

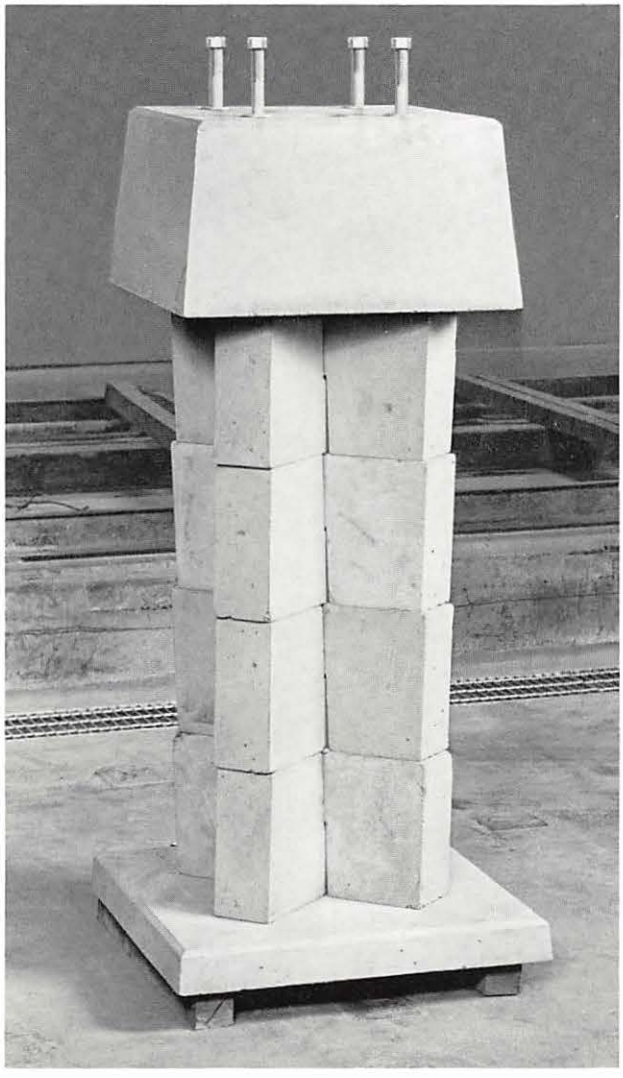
FOUNDATION: DWARF

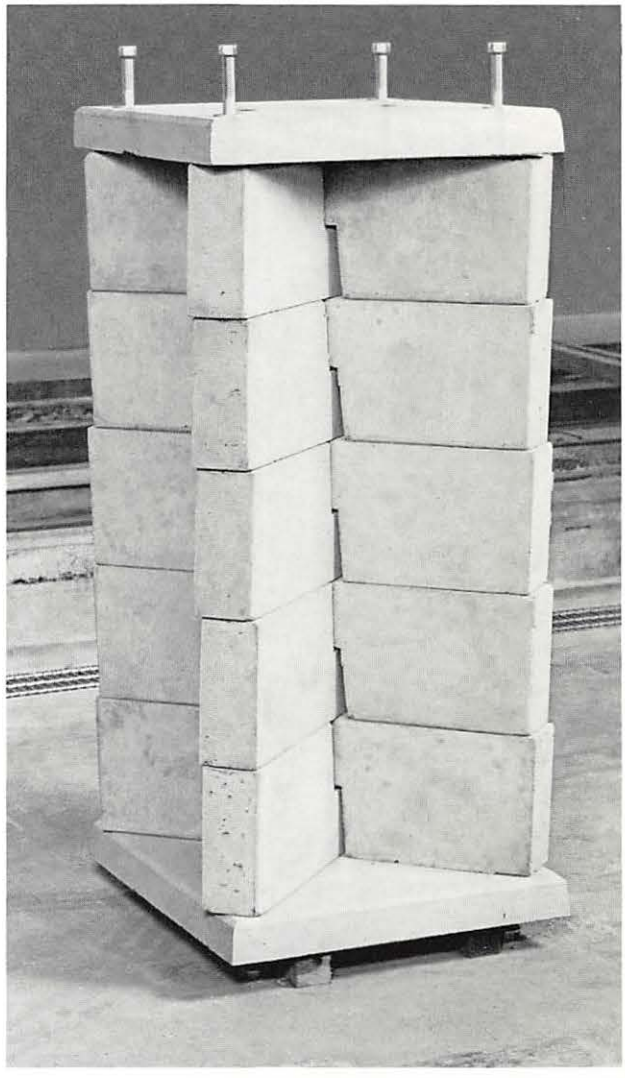
PART NO. SEE ABOVE

DRAWING NUMBER A27006

LONESTAR CONCRETE PRODUCTS

SIGNAL BASES





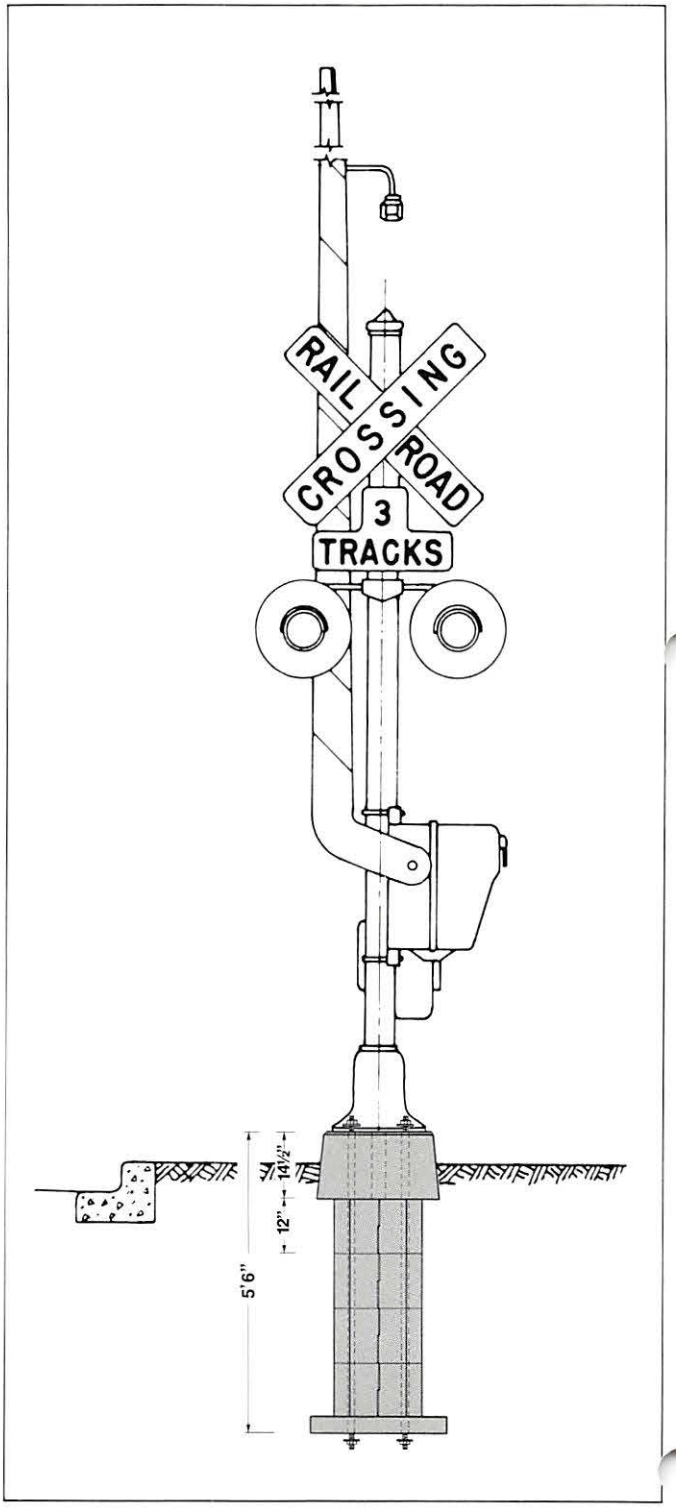
Precast, sectionalized foundation for railway gate mechanisms and wayside signals (left) and signal control instrument cabinets (right). Both foundations meet all applicable AAR specifications.

LONESTAR
CONCRETE
PRODUCTS

Fast, Easy Installation. The Lonestar pre-cast signal and cabinet foundations are sectionalized with cross lap joints for easy installation in an augered or dug hole. The interlocking sections can be handled and set in place by two (2) men or the sections can be pre-assembled and the entire foundation set in place with a boom and then leveled and backfilled.

The steel-reinforced base and top, as well as the intermediate sections of both models, are specifically designed to resist uplift and provide maximum resistance to horizontal loading and rotation. Four (4) galvanized bolts run continuously from the base through the equipment base plate for unitized performance.

Elimination of costly on-site forming and pouring of concrete foundations allows virtual year-round installation, reduces cost and keeps projects on schedule.



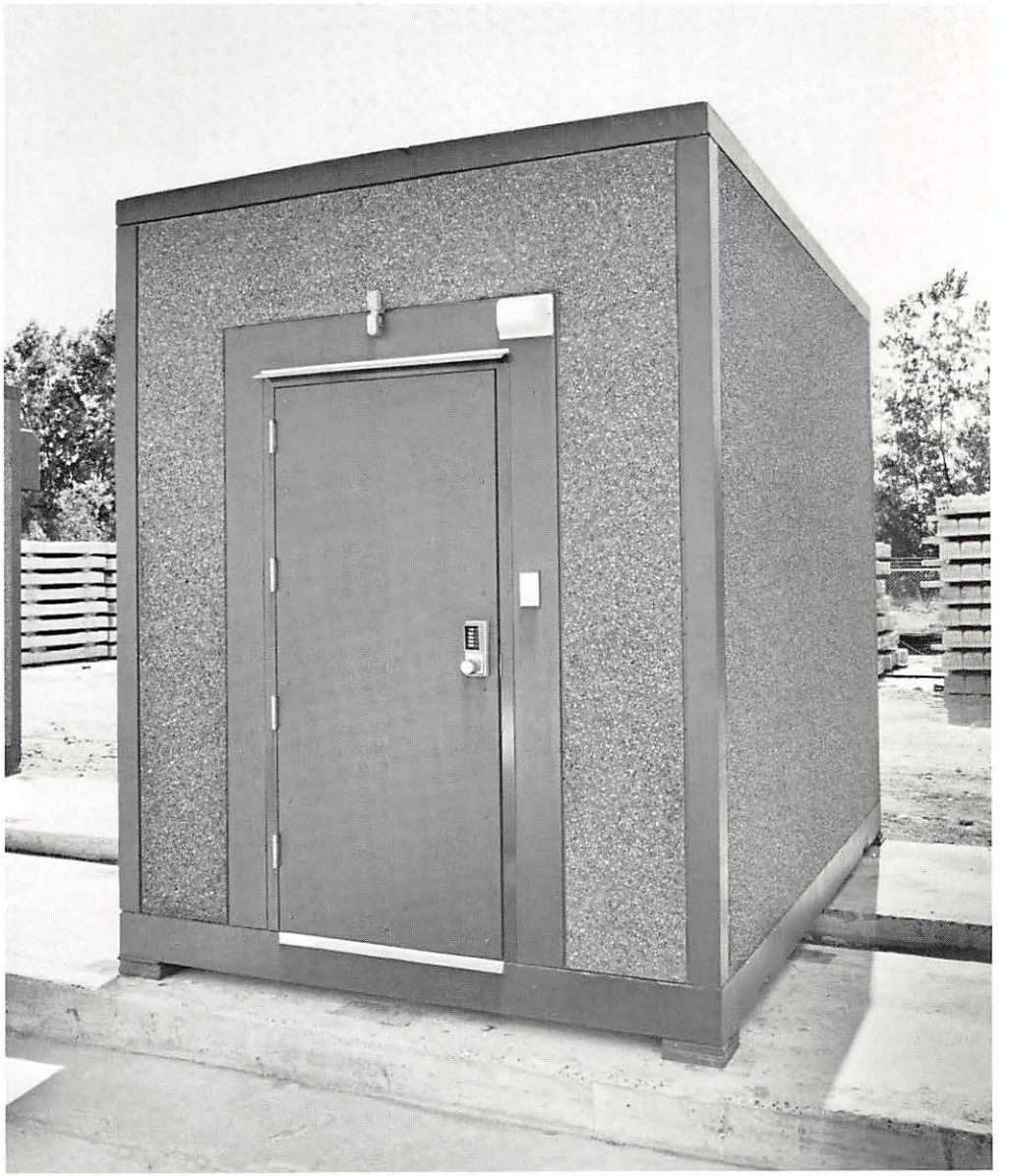
To order or request additional information, please phone or write:
Lonestar Concrete Products
4300 Shawnee Mission Parkway, Suite 101
Fairway, Kansas 66205
(913) 384-0401

SOUTHERN PRODUCTS

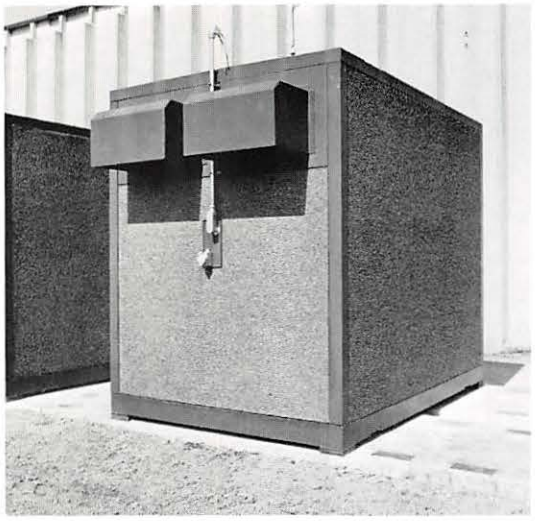
COMMUNICATIONS BUILDINGS

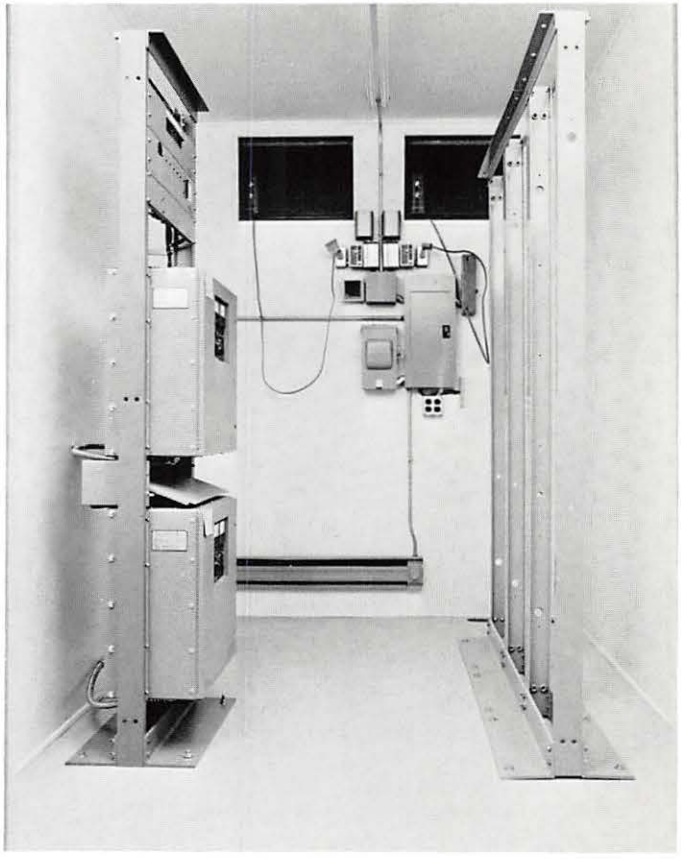
Southern Products offers ***Service.*** *On time delivery, high value, superior quality, custom design, experience and personal attention equals service you can rely on.*

This concrete shelter, in any of numerous sizes, is available now from our centrally located Kansas City, Kansas casting and equipping facility.



SOUTHERN PRODUCTS

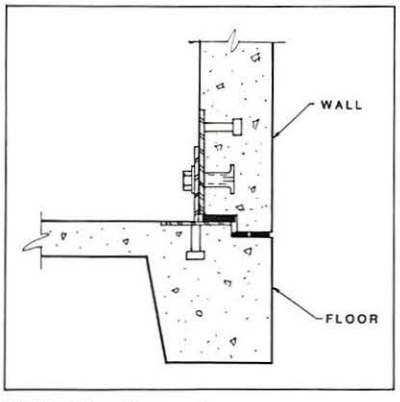




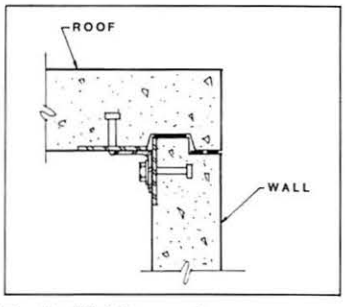
Key Features

- Price
- Delivery
- Absolute Weather Protection
- Bullet Resistance
- Architectural Exteriors
- Custom Outfitting
- HVAC Design and Installation
- Fully Engineered
- Code Compliant

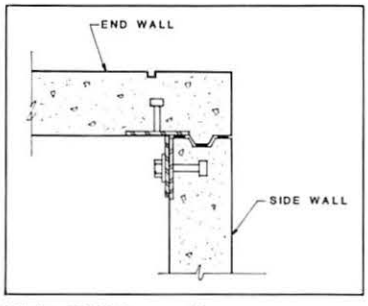
Southern Products has a proven performance record and the experience to meet the most demanding market needs. Whether for telephone digital switching, fiber optics, paging, cellular, microwave, metering, stand-by power or just about any requirement that demands premium performance at competitive prices—we've done it before, and can do it for you.



Wall to Floor Connection



Roof to Wall Connection

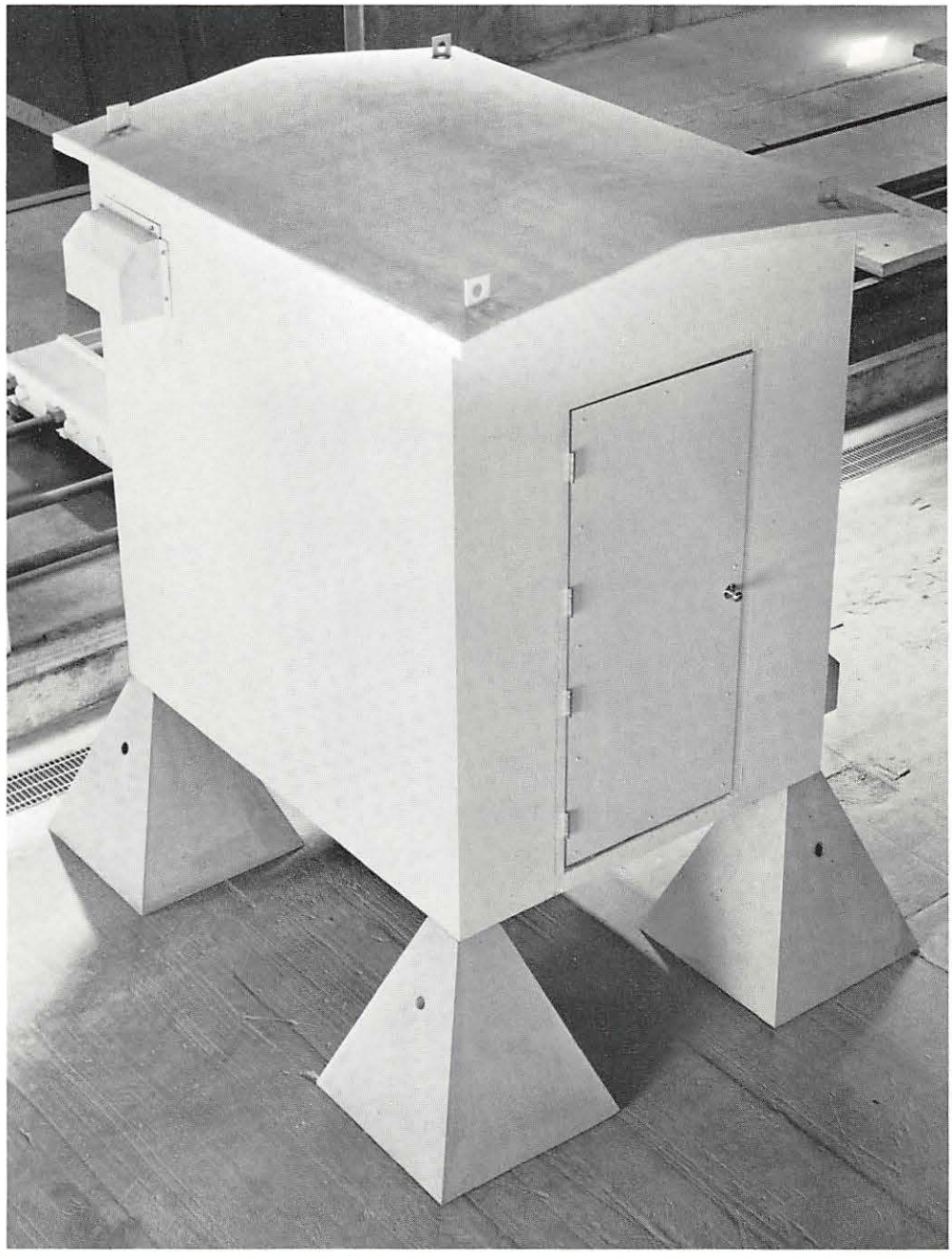


Wall to Wall Connection

To order or request additional information, please phone or write:
Southern Products
4300 Shawnee Mission Parkway, Suite 101
Fairway, Kansas 66205
(913) 384-0401

LONESTAR CONCRETE PRODUCTS

CONCRETE BUILDINGS



Service: *Plain and simple. Our products and staff provide the service you expect.*

This transportable concrete shelter model 688 is cast in ***one piece****—a true monolithic structure that eliminates the possibility of joint leakage and maintenance.*

Ideally suited for microwave, broadcast, fiber optic, digital switching and standby power equipment, the Lonestar concrete shelter is available for installation now.

LONESTAR CONCRETE PRODUCTS

Bullet, Fire, Water and Vandal Resistant: Features you demand in a transportable shelter and we deliver when and where you want it!!

Equipment Installation to Your Specifications or let our experienced engineering staff help you design an efficient HVAC and power distribution system to fit your needs.

Value, Quality, Performance, Experience: plain and simple, they equal **SERVICE** . . . something you can rely on when you choose Lonestar.

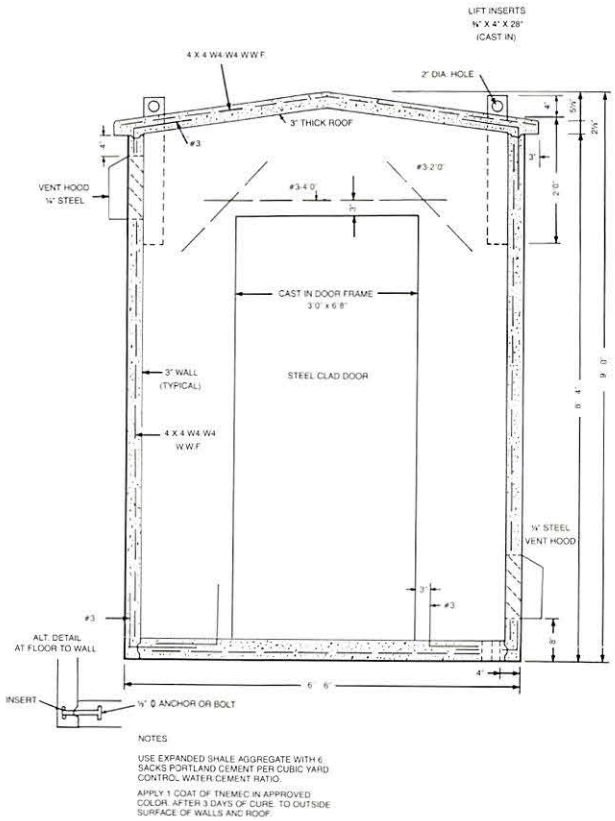
Size: 6′ wide by 8′ long by 8½′ high (inside dimensions)

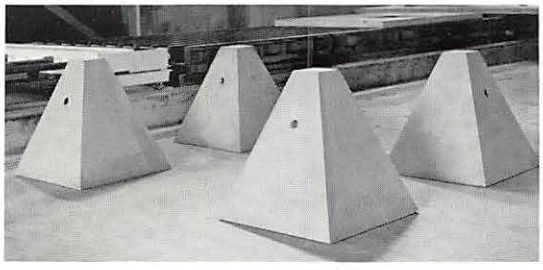
Weight: 10,900 lbs. without foundation piers

Foundation Piers (optional): about 1,340 lbs. each
3′ high
36″ by 36″ base
8″ by 8″ top

Lifting Lugs permanently imbedded for secure, easy handling

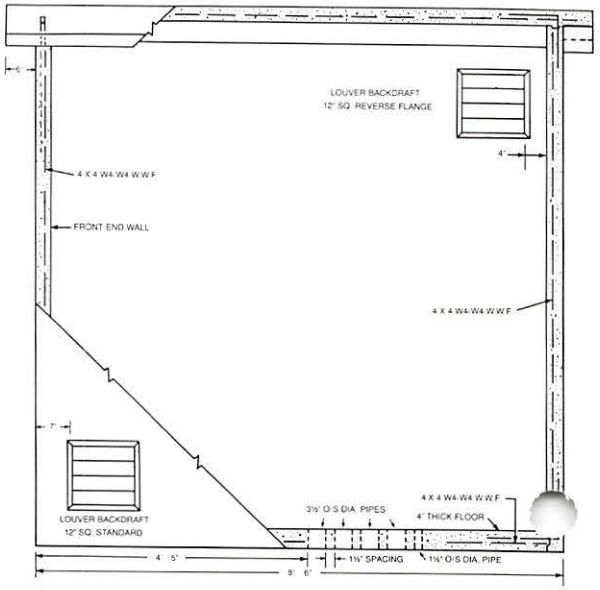
FRONT END SECTION





Precast foundations are also available to eliminate the need for costly on site forming and concrete work.

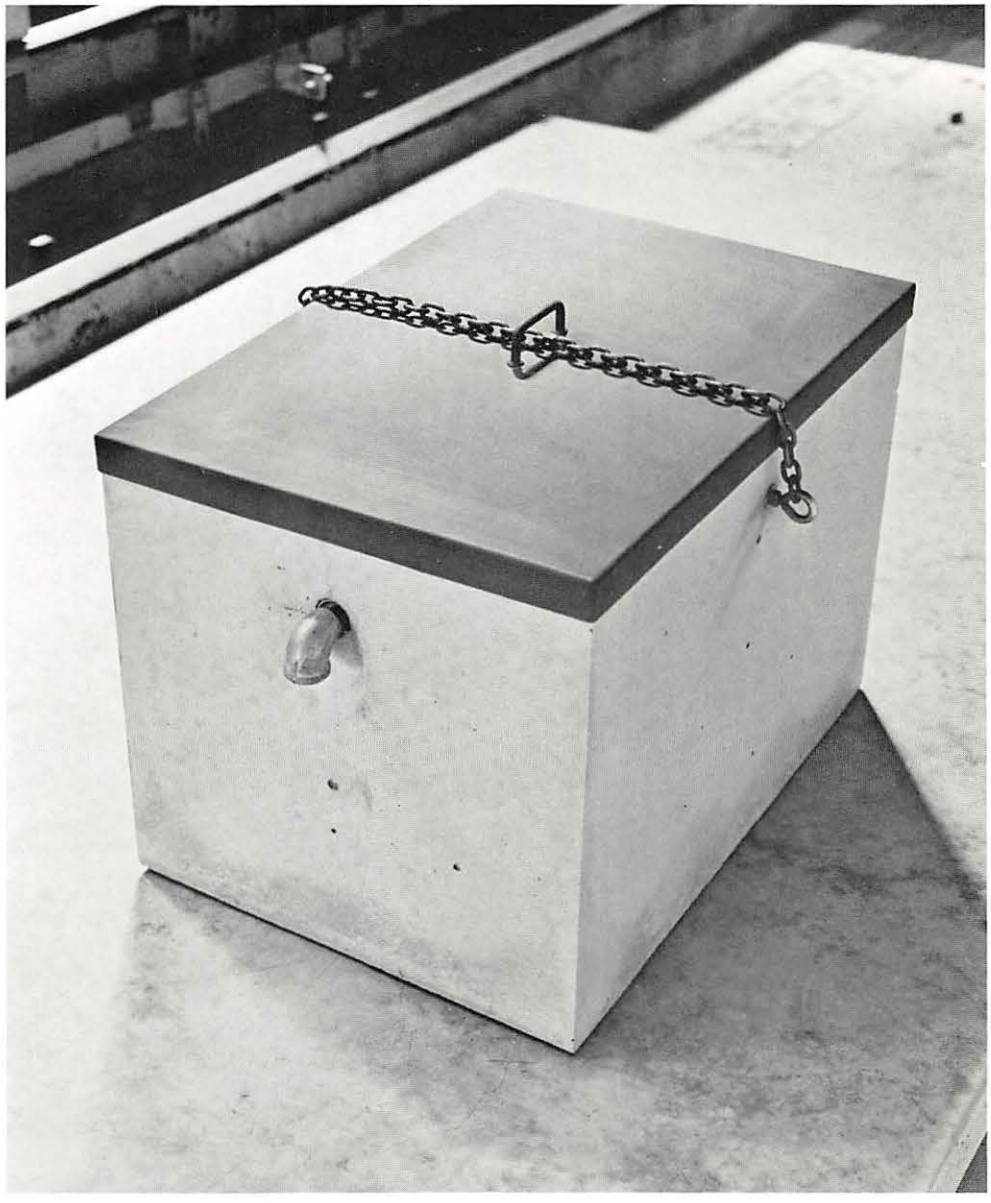
R/H SIDE SECTION



To order or request additional information, please phone or write:
Lonestar Concrete Products
4300 Shawnee Mission Parkway, Suite 101
Fairway, Kansas 66205
(913) 384-0401

LONESTAR CONCRETE PRODUCTS

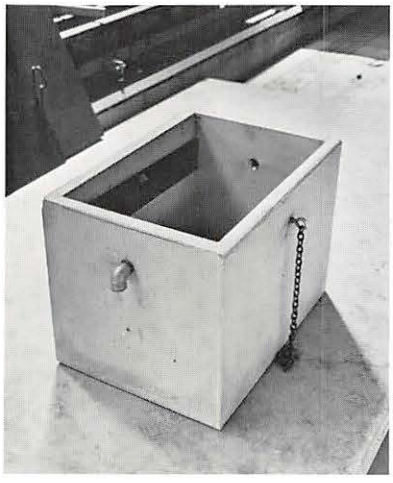
BATTERY BOXES

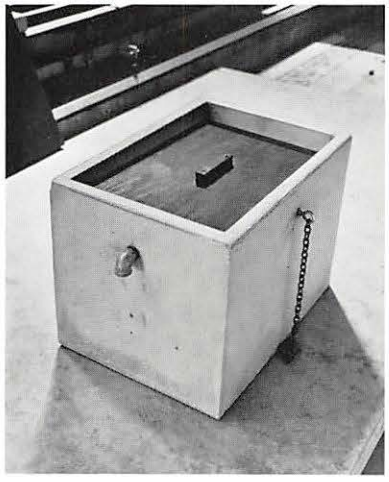


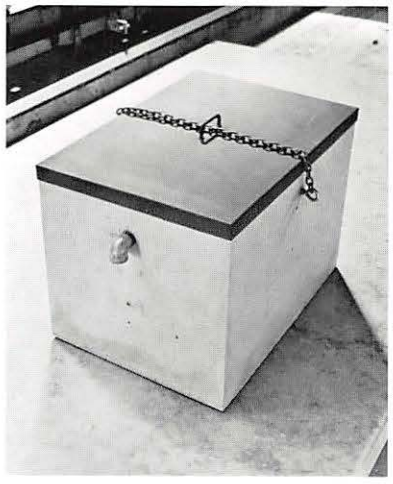
One-piece steel reinforced precast battery box provides security and long service. Design meets all applicable AAR specifications.

LONESTAR CONCRETE PRODUCTS

Lonestar precast battery boxes will provide maximum protection for power signal equipment batteries. The joint-free monolythic construction holds moisture out, while allowing proper ventilation of battery gases via the built in vent system.



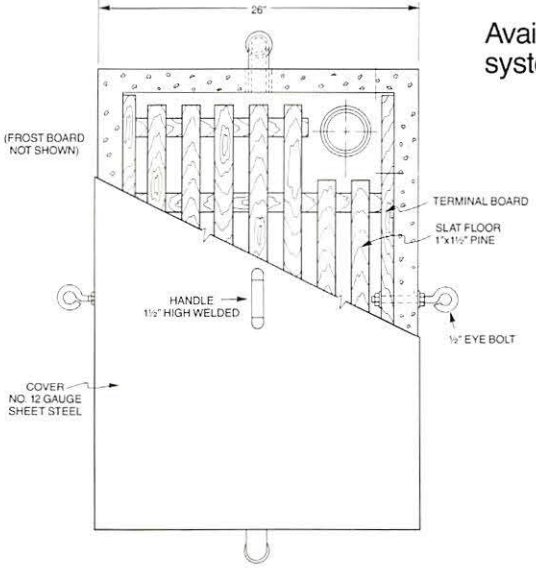




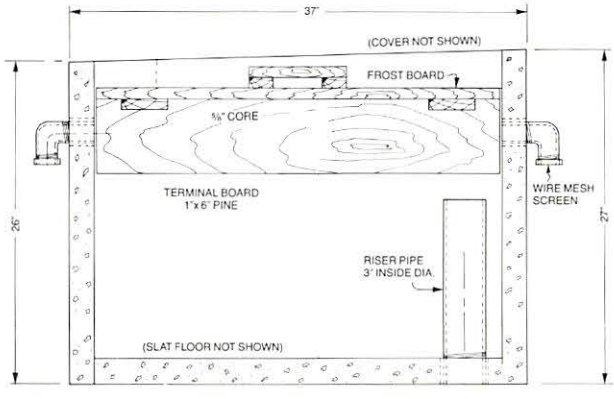
Security is achieved through a simple chain and lock system that passes through hardware in the box and cover.

Galvanized hardware is standard, as are slat bottoms and terminal mounting boards. Optional rigid insulation is available if required.

Available as shown below or in sizes to meet your system needs.



TOP VIEW



SIDE VIEW

To order or request additional information, please phone or write:
Lonestar Concrete Products
4300 Shawnee Mission Parkway, Suite 101
Fairway, Kansas 66205
(913) 384-0401

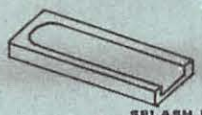
Reliable Concrete Products

MARNIE PORTER

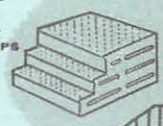
615 Scott, Kansas City, Kansas 66119
1 Block North of Kansas Ave.

Phone 321-8108

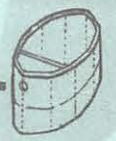
PARKING CURBS


SPLASH BLOCKS

AIR CONDITIONING SLABS AND PATO BLOCKS

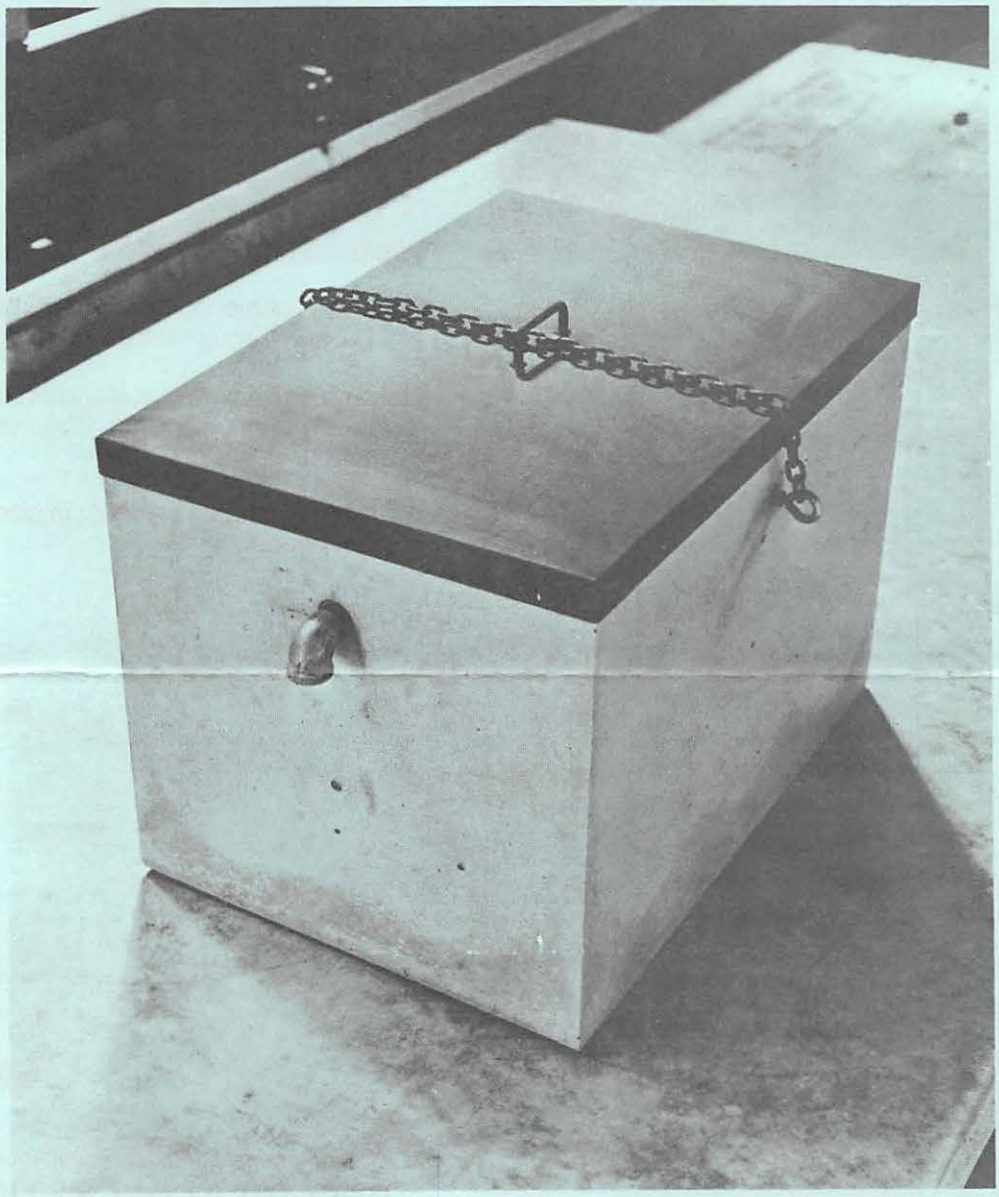

READY MADE CONCRETE STEPS

ORNAMENTAL IRON RAILINGS


SEPTIC TANKS

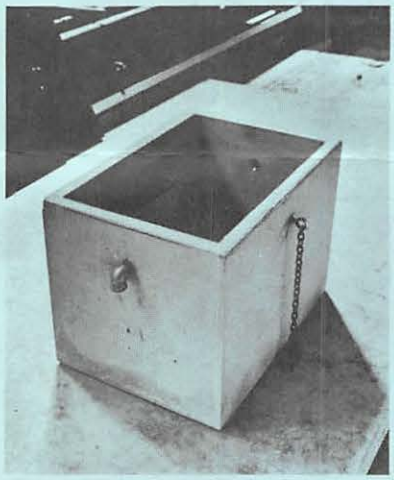
BATTERY BOXES

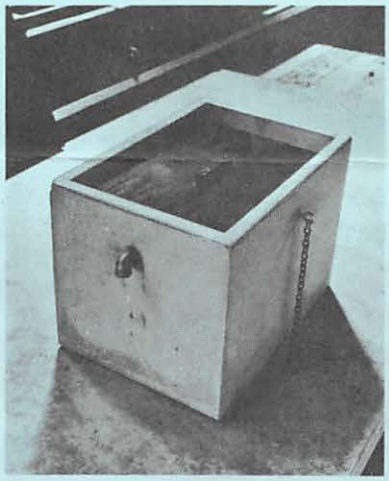
One-piece steel reinforced precast battery box provides security and long service. Design meets all applicable AAR specifications.

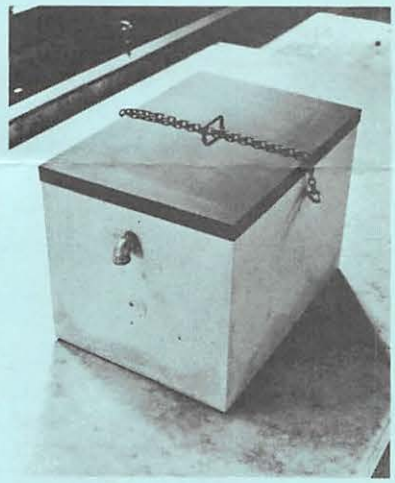


Reliable Concrete Products

[redacted] precast battery boxes will provide maximum protection for power signal equipment batteries. The joint-free monolythic construction holds moisture out, while allowing proper ventilation of battery gases via the built in vent system.



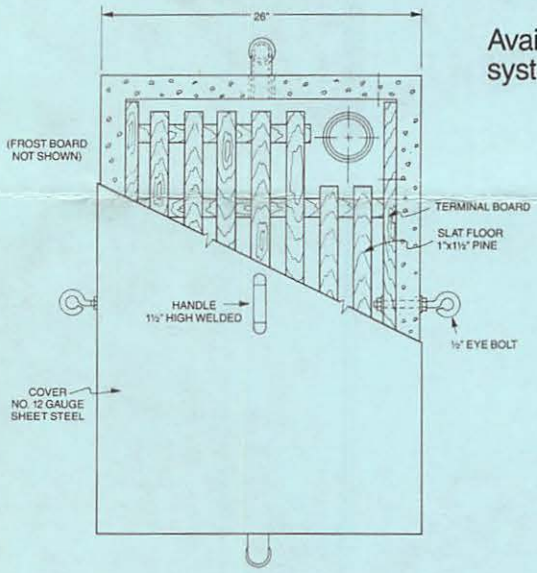




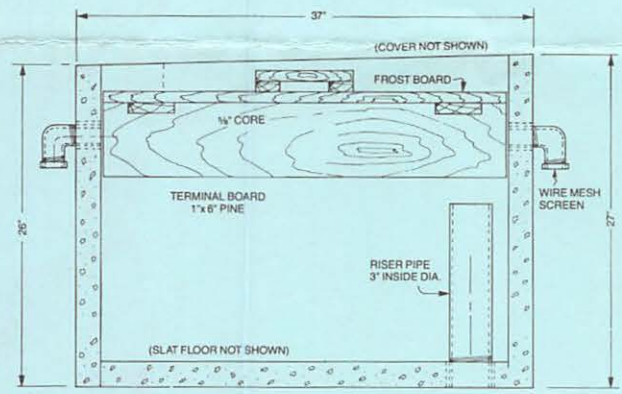
Security is achieved through a simple chain and lock system that passes through hardware in the box and cover.

Galvanized hardware is standard, as are slat bottoms and terminal mounting boards. Optional rigid insulation is available if required.

Available as shown below or in sizes to meet your system needs.



TOP VIEW



SIDE VIEW

To order or request additional information, please phone or write:

RELIABLE CONCRETE PRODUCTS AND ORNAMENTAL IRON INC.

(913) 321-8108

615 SCOTT P.O. BOX 5095
KANSAS CITY, KANSAS 66119

Sectional Foundations, Inc.
P. O. BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985

TABLE OF CONTENTS

CONCRETE PRODUCTS AND FOUNDATIONS

Flasher Pole 1
Crossing Gate 2
Cantilever Gate and Bridge 3
Cantilever Signal and Bridge 4-5
Instrument Case Piers 6-7
Colorlight Dwarf Signal 8
Relay House Pier 9
Price List 10

FIELD POURED FOUNDATIONS

Concrete Foundation Assembly 14
Concrete Reinforcing 15
Bolt Spacing Specs 16
Material Description 17
Price List 18

STEEL FOUNDATIONS

Flasher Pole 19
Crossing Gate 20
Instrument Case 21
Telephone House 22
Instrument House 23
Signal Colorlight 24
Price List 25

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FEB 8 1978
RAILROAD MARKETS

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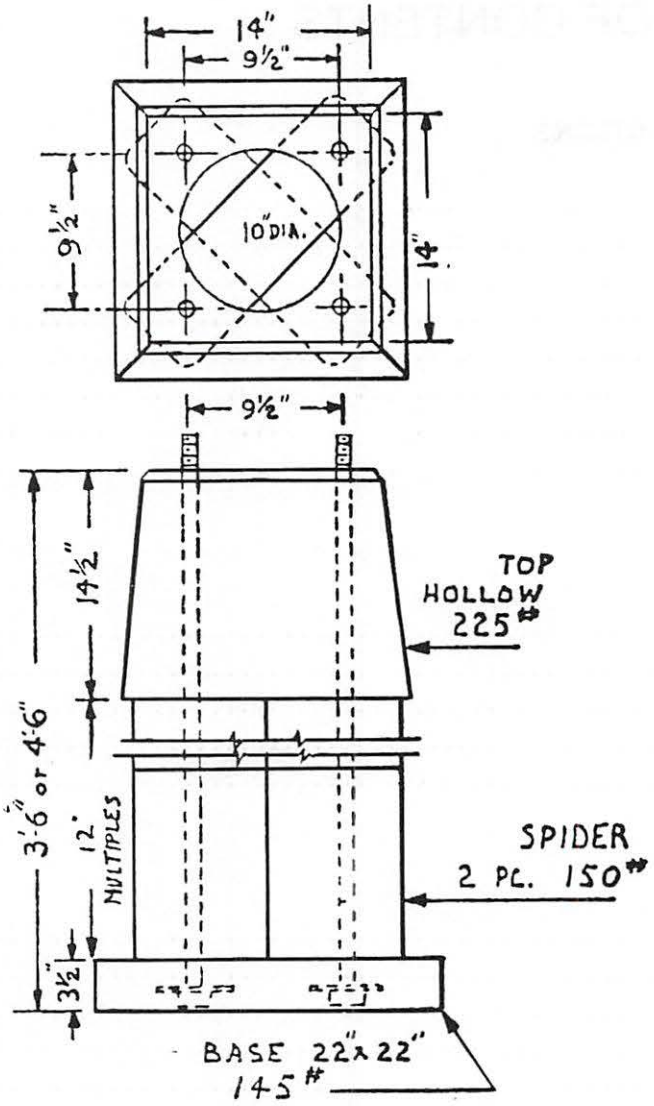
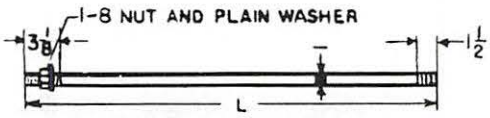
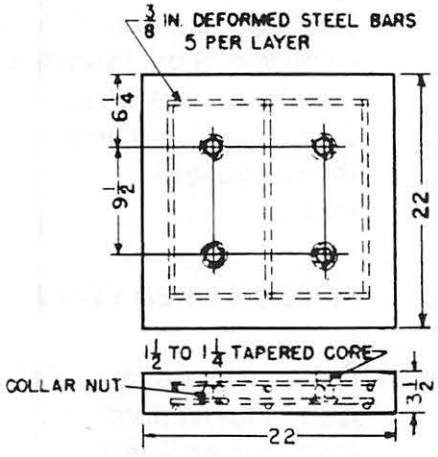
SF-1
FLASHER POLE





BOLT
SPECIFY LENGTH L
FOUNDATION HEIGHT PLUS 2¼ INCHES



BASE
WEIGHT 145 LBS.

NOTES:

1. REINFORCEMENT SHALL BE PLACED NOT LESS THAN ONE INCH FROM OUTSIDE SURFACES.
2. BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED OR CADMIUM PLATED.
3. CONCRETE SHALL BE IN ACCORDANCE WITH AMERICAN RAILWAY ENGINEERING ASSOCIATION SPECIFICATIONS.

   COARSE AGGREGATE SHALL CONSIST OF ¾ INCH MAXIMUM SIZE STONE OR GRAVEL. NOT LESS THAN SEVEN SACKS OF CEMENT SHALL BE USED PER CUBIC YARD OF CONCRETE. WATER CEMENT RATIO TO PRODUCE A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 POUNDS PER SQUARE INCH AFTER 28 DAYS SHALL BE USED.
4. TOP AND BOTTOM SURFACES OF ALL PARTS SHALL BE FLAT AND PARALLEL.
5. ⅜" DEFORMED STEEL BARS REINFORCE EACH PIECE OF FOUNDATION.

PRECAST CONCRETE FOUNDATION FOR 4 INCH MAST
DETAILS

AAR SIGNAL 694B

					M-1961	OCT. 1961	M-1939	MAR. 1939

Nuts and threads shall be in accordance with Specifications for Bolts, Nuts and Threads, Manual Part 17. Plain washers shall be in accordance with Specifications for Plain and Spring Lock Washers, Manual Part 35. Steel shall be in accordance with Specifications for Various Types of Steel, Manual Part 154, Section 1.

Sectional Foundations, Inc.
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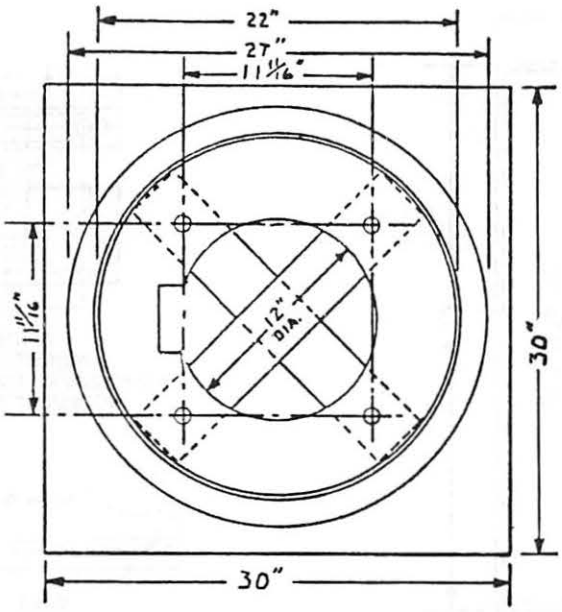
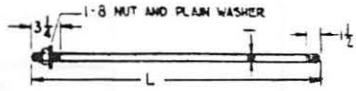
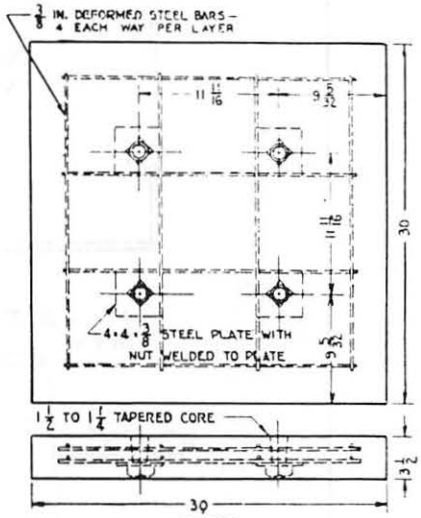
SF-2
CROSSING GATE

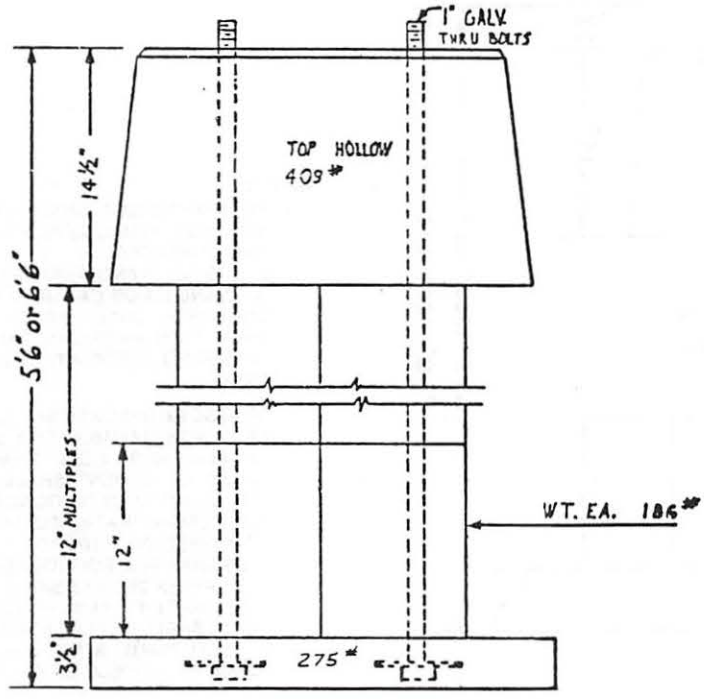




BOLT
SPECIFY LENGTH L
FOUNDATION HEIGHT PLUS 3¼ INCHES


3/8 IN. DEFORMED STEEL BARS - 4 EACH WAY PER LAYER
11
9
11 11/16
30
4 x 4 x 3/8 STEEL PLATE WITH NUT WELDED TO PLATE
1 1/2 TO 1 1/4 TAPERED CORE
3 1/2
30

BASE
WEIGHT 275 LBS.



NOTES:

1. REINFORCEMENT SHALL BE PLACED NOT LESS THAN ONE INCH FROM OUTSIDE SURFACES.
2. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED OR CADMIUM PLATED.
3. CONCRETE SHALL BE IN ACCORDANCE WITH AMERICAN RAILWAY ENGINEERING ASSOCIATION SPECIFICATIONS.

   COARSE AGGREGATE SHALL CONSIST OF ¾ INCH MAXIMUM SIZE STONE OR GRAVEL. NOT LESS THAN SEVEN SACKS OF CEMENT SHALL BE USED PER CUBIC YARD OF CONCRETE. WATER CEMENT RATIO TO PRODUCE A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 POUNDS PER SQUARE INCH AFTER 28 DAYS SHALL BE USED.
4. TOP AND BOTTOM SURFACES OF ALL PARTS SHALL BE FLAT AND PARALLEL.
5. ⅜" DEFORMED STEEL BARS REINFORCE EACH PIECE OF FOUNDATION.

PRECAST CONCRETE FOUNDATION FOR 5 AND 6 INCH MASTS
DETAILS

AAR SIG. SEC. 1560A

							M-1958	SEP. 1958

Nuts and threads shall be in accordance with Specifications for Bolts, Nuts and Threads, Manual Part 17. Plain washers shall be in accordance with Specifications for Plain and Spring Lock Washers, Manual Part 35. Steel shall be in accordance with Specifications for Various Types of Steel, Manual Part 154, Section 1.

Sectional Foundations, Inc.
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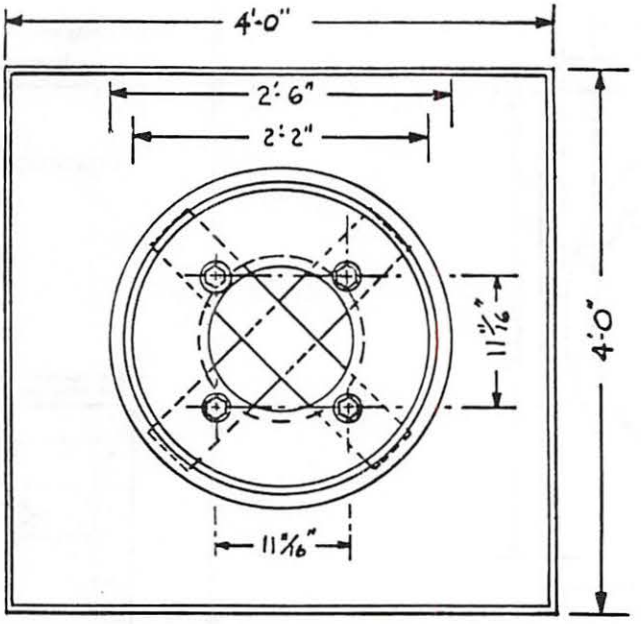
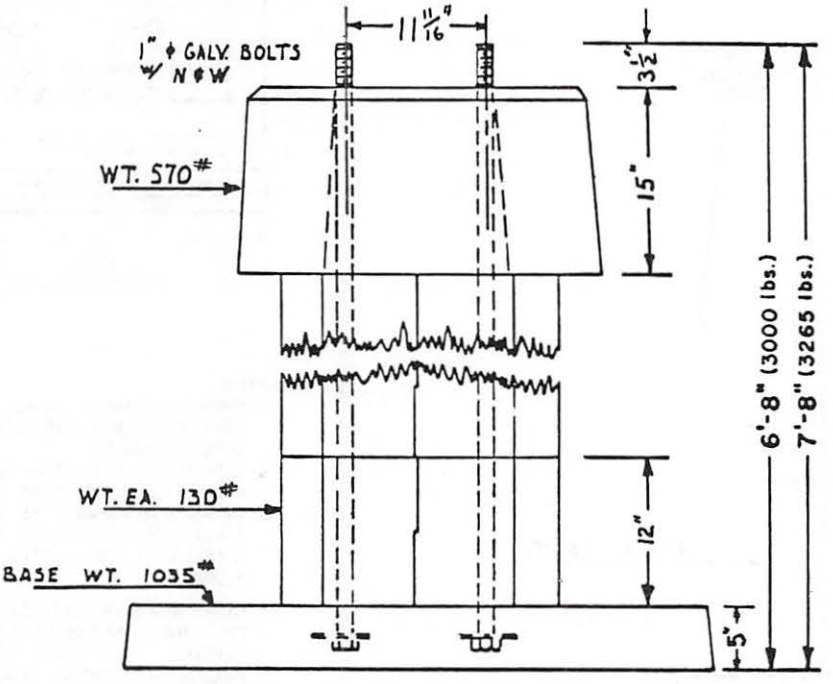
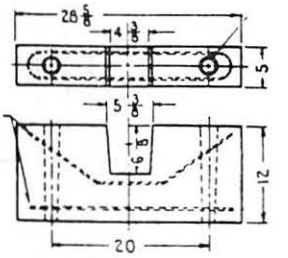
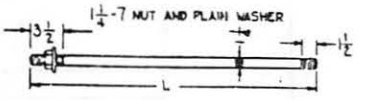
SF-9-2
CANTILEVER GATE AND BRIDGE







SPIDER
WEIGHT 130 LBS
TWO REQUIRED FOR EACH 12 INCH
INCREMENT OF HEIGHT



BOLT
SPECIFY LENGTH L
FOUNDATION HEIGHT PLUS 3½ INCHES

NOTES:

1. REINFORCEMENT SHALL BE PLACED NOT LESS THAN ONE INCH FROM OUTSIDE SURFACES.
2. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED OR CADMIUM PLATED.
3. CONCRETE SHALL BE IN ACCORDANCE WITH AMERICAN RAILWAY ENGINEERING ASSOCIATION SPECIFICATIONS.

   COARSE AGGREGATE SHALL CONSIST OF ¾ INCH MAXIMUM SIZE STONE OR GRAVEL. NOT LESS THAN SEVEN SACKS OF CEMENT SHALL BE USED PER CUBIC YARD OF CONCRETE. WATER CEMENT RATIO TO PRODUCE A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 POUNDS PER SQUARE INCH AFTER 28 DAYS SHALL BE USED.
4. TOP AND BOTTOM SURFACES OF ALL PARTS SHALL BE FLAT AND PARALLEL.
5. ⅜" DEFORMED STEEL BARS REINFORCE EACH PIECE OF FOUNDATION.

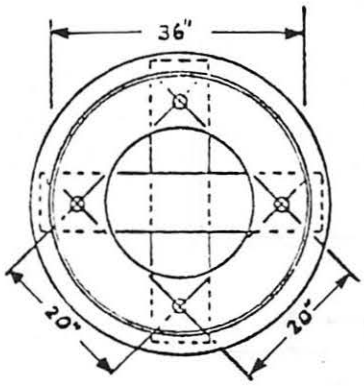
PRECAST CONCRETE FOUNDATION FOR 8 INCH MAST
DETAILS

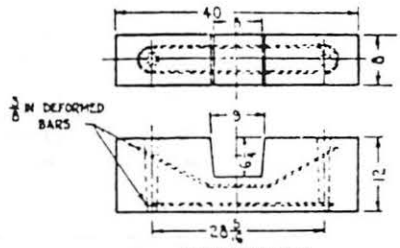
									AAR SIG. SEC.
							M-1958	SEP. 1958	1561A

Nuts and threads shall be in accordance with Specifications for Bolts, Nuts and Threads. Manual Part 17. Plain washers shall be in accordance with Specifications for Plain and Spring Lock Washers, Manual Part 35. Steel shall be in accordance with Specifications for Various Types of Steel, Manual Part 154, Section 1.

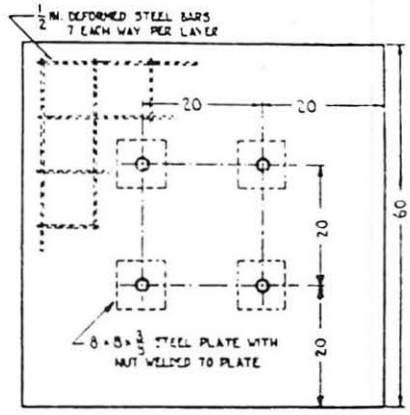
Sectional Foundations, Inc.
P O BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985

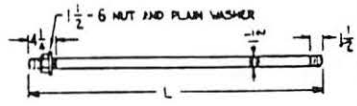
SF-10
CANTILEVER SIGNAL AND BRIDGE



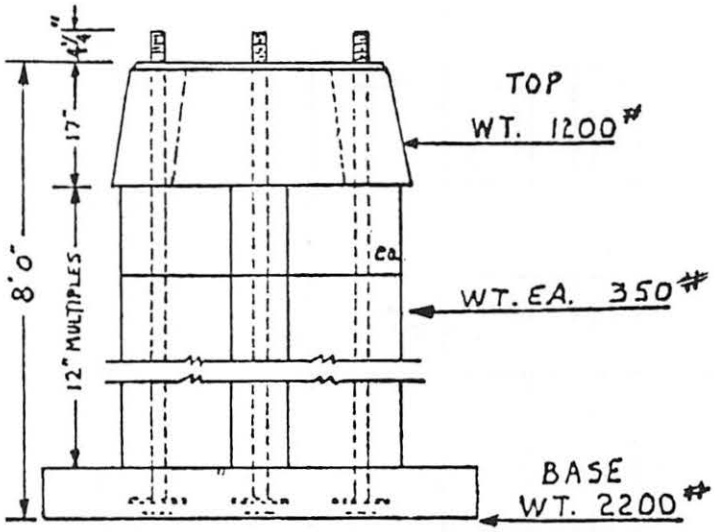


15793 SPIDER
WEIGHT 350 LBS.
TWO REQUIRED FOR EACH 12 INCH
INCREMENT OF HEIGHT





15791 BOLT
SPECIFY LENGTH L
FOUNDATION HEIGHT PLUS 4¼ INCHES



NOTE:

1. REINFORCEMENT SHALL BE PLACED NOT LESS THAN ONE INCH FROM OUTSIDE SURFACES.
2. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED OR CADMIUM PLATED.
3. CONCRETE SHALL BE IN ACCORDANCE WITH AMERICAN RAILWAY ENGINEERING ASSOCIATION SPECIFICATIONS.

   COARSE AGGREGATE SHALL CONSIST OF ¾ INCH MAXIMUM SIZE STONE OR GRAVEL. NOT LESS THAN SEVEN SACKS OF CEMENT SHALL BE USED PER CUBIC YARD OF CONCRETE. WATER CEMENT RATIO TO PRODUCE A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 POUNDS PER SQUARE INCH AFTER 28 DAYS SHALL BE USED.
4. TOP AND BOTTOM SURFACES OF ALL PARTS SHALL BE FLAT AND PARALLEL.

PRECAST CONCRETE FOUNDATION FOR 10 AND 12 INCH MASTS
DETAILS

							M-1958	SEP. 1958

AAR SIG. SEC. 1579A

Nuts and threads shall be in accordance with Specifications for Bolts, Nuts and Threads. Manual Part 17. Plain washers shall be in accordance with Specifications for Plain and Spring Lock Washers, Manual Part 35. Steel shall be in accordance with Specifications for Various Types of Steel, Manual Part 154, Section 1.

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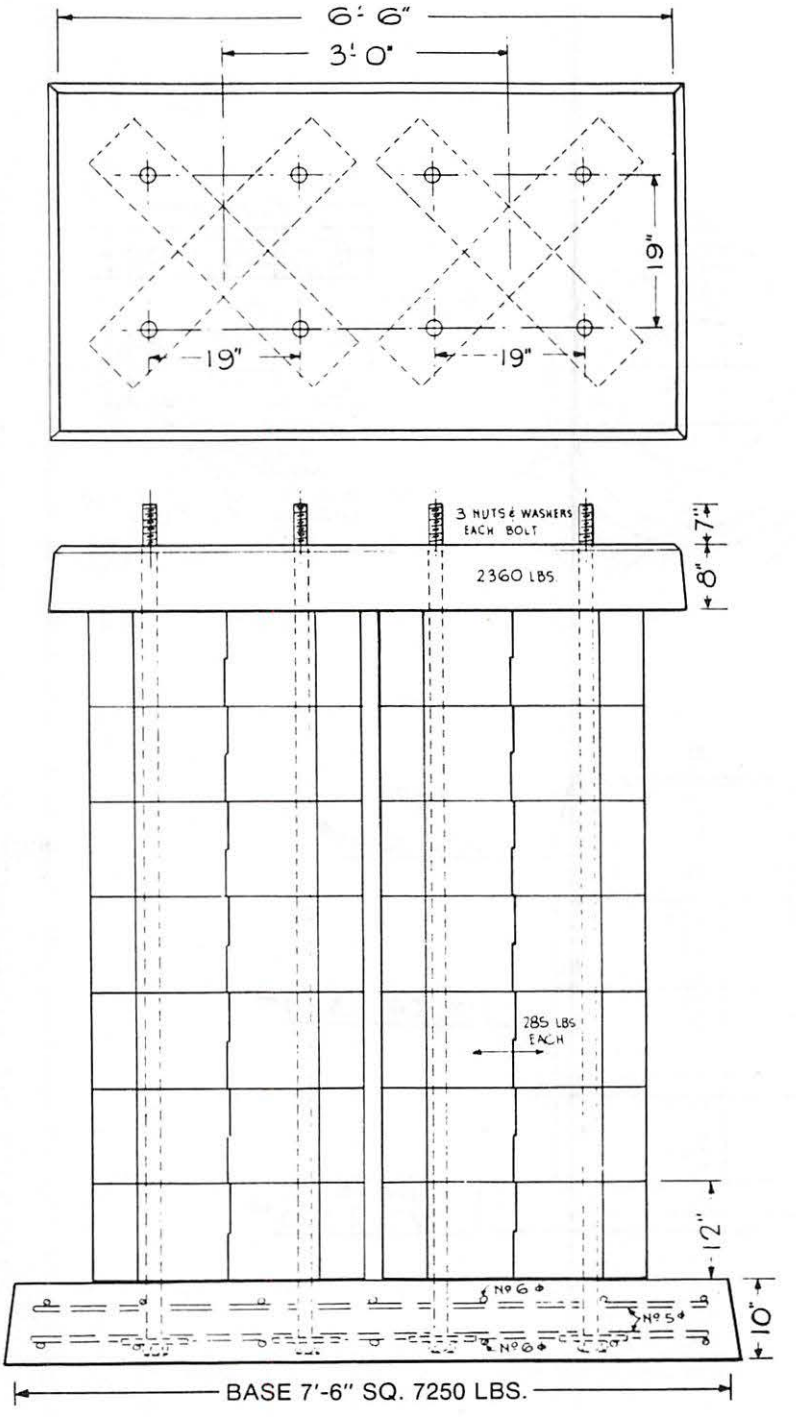
SF-10-3W-S-19
CANTILEVER SIGNAL *



ARMS

32 to 34 Ft.	7'-6"	16,730 Lbs. w/ 1¼" ø Bolts	S-19-33
35 to 37 Ft.	8'-6"	17,800 Lbs. w/ 1¼" ø Bolts	S-19-36
38 to 40 Ft.	9'-6"	19,230 Lbs. w/ 1½" ø Bolts	S-19-40

TYPICAL ELEVATION FOR 32 FT. TO 40 FT. CANTILEVERS

BASE AVAILABLE IN 4 PCS. I.E., 3'-9" × 7'-6" × 7" THICK 2550 LBS. EA.

*Can be ordered in 12¾" x 12¾" center to center bolt spacing (SF-10-S-12) for WABCO only.

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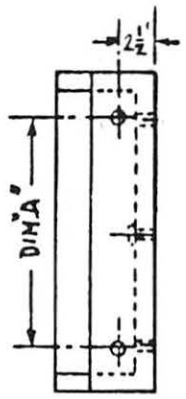
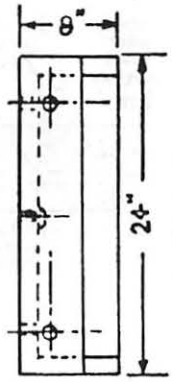
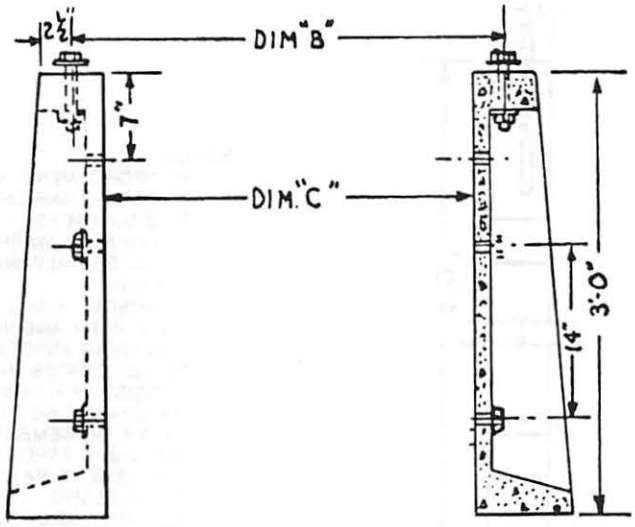
SF-5
INSTRUMENT CASE PIERS







INSTRUMENT CASE FOUNDATIONS ORDER REF.

Foundation	"A"	"B"	Strut "C"	Acc.	Wt.
SF-5A	1'-3"			No	473
A2	1'-6½"			No	473
B	1'-6½"	2'-1½"			
B	1'-6½"	2'-1½"	1'-8½"	T	548
C	1'-6½"	2'-10"	2'-5"	C	566
D	1'-6½"	3'-5¾"	3'-0¾"	C	582
E	1'-6½"	3'-8¼"	3'-3¼"	C	588
F	1'-6½"	4'-2"	3'-9"	T	600
G	1'-6½"	4'-4"	3'-11"	C	605
H	1'-6½"	5'-1¼"	4'-8¼"	C	623
I	1'-6½"	5'-4"	4'-11"	C	628
J	1'-6½"	6'-0"	5'-7"	T	645
K	1'-6½"	6'-11¼"	6'-6¼"	C	692
L	1'-6½"	7'-6"	7'-1"	T	713
M	1'-6½"	9'-10¼"	9'-5¼"	P	943
N	1'-6½"	3'-4¾"	2'-11¾"	T	580
O	1'-6½"	6'-6⅜"	6'-1⅜"	T	661
P	1'-6½"	2'-8"	2'-3"	C	581
Accessory	T	T-Head			
	P	Paneled			
	C	Cored			

1 Bag—Bolts, Nuts, and Washers attached to each Strut.
Each Bag Contains:
(4) ¾" × 4½" Galv. Bolts w/Nut & Washer
(4) ¾" × 2½" Galv. Studs w/Washer only
(4) ¾" × 7" or (4) ¾" × 9" galv. bolts substituted for the 4½" @ $1.90 Extra for lot of (4)

NOTES:
1. REINFORCEMENT SHALL BE PLACED NOT LESS THAN ONE INCH FROM OUTSIDE SURFACES.
2. BOLTS, NUTS, WASHERS, AND INSERTS SHALL BE GALVANIZED OR CADMIUM PLATED.
3. CONCRETE SHALL BE IN ACCORDANCE WITH AMERICAN RAILWAY ENGINEERING ASSOCIATION SPECIFICATIONS. COARSE AGGREGATE SHALL CONSIST OF ¾ INCH MAX. SIZE STONE OR GRAVEL. NOT LESS THAN SEVEN SACKS OF CEMENT SHALL BE USED PER CUBIC YARD OF CONCRETE. WATER CEMENT RATIO TO PRODUCE A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 POUNDS PER SQ. INCH AFTER 28 DAYS SHALL BE USED.

PRECAST CONCRETE PIER FOR INSTRUMENT HOUSINGS
DETAILS AND ASSEMBLY

AAR SIG. SEC. 1581A

							M-1959	OCT. 1959

Nuts and threads shall be in accordance with Specifications for Bolts, Nuts and Threads, Manual Part 17. Plain washers shall be in accordance with Specifications for Plain and Spring Lock Washers, Manual Part 35. Steel shall be in accordance with Specifications for Various Types of Steel, Manual Part 154, Section 1.

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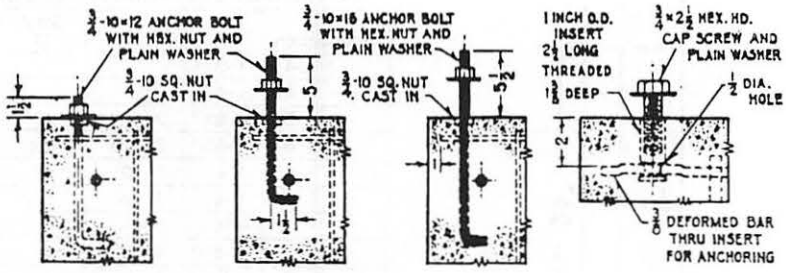
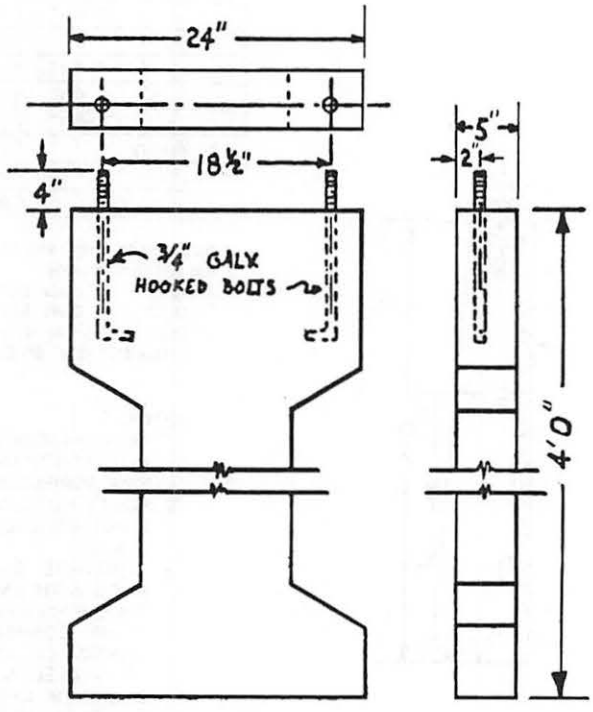
SF-392
INSTRUMENT CASE PIERS


¾-10×12 ANCHOR BOLT WITH HEX. NUT AND PLAIN WASHER
¾-10 SQ. NUT CAST IN
¾-10×16 ANCHOR BOLT WITH HEX. NUT AND PLAIN WASHER
¾-10 SQ. NUT CAST IN
1 INCH O.D. INSERT 2½ LONG THREADED 1⅜ DEEP
¾×2½ HEX. HD. CAP SCREW AND PLAIN WASHER
½ DIA. HOLE
DEFORMED BAR THRU INSERT FOR ANCHORING



NOTES:

1. REINFORCEMENT SHALL BE PLACED NOT LESS THAN ONE INCH FROM OUTSIDE SURFACES.
2. BOLTS, NUTS, WASHERS, AND INSERTS SHALL BE GALVANIZED OR CADMIUM PLATED.
3. CONCRETE SHALL BE IN ACCORDANCE WITH AMERICAN RAILWAY ENGINEERING ASSOCIATION SPECIFICATIONS. COARSE AGGREGATE SHALL CONSIST OF ¾ INCH MAX. SIZE STONE OR GRAVEL. NOT LESS THAN SEVEN SACKS OF CEMENT SHALL BE USED PER CUBIC YARD OF CONCRETE. WATER CEMENT RATIO TO PRODUCE A COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 POUNDS PER SQ. INCH AFTER 28 DAYS SHALL BE USED.

PRECAST CONCRETE PIER FOR INSTRUMENT HOUSINGS
DETAILS AND ASSEMBLY

AAR SIG. SEC. 1581A

							M-1959	OCT. 1959

Nuts and threads shall be in accordance with Specifications for Bolts, Nuts and Threads. Manual Part 17. Plain washers shall be in accordance with Specifications for Plain and Spring Lock Washers, Manual Part 35. Steel shall be in accordance with Specifications for Various Types of Steel, Manual Part 154, Section 1.

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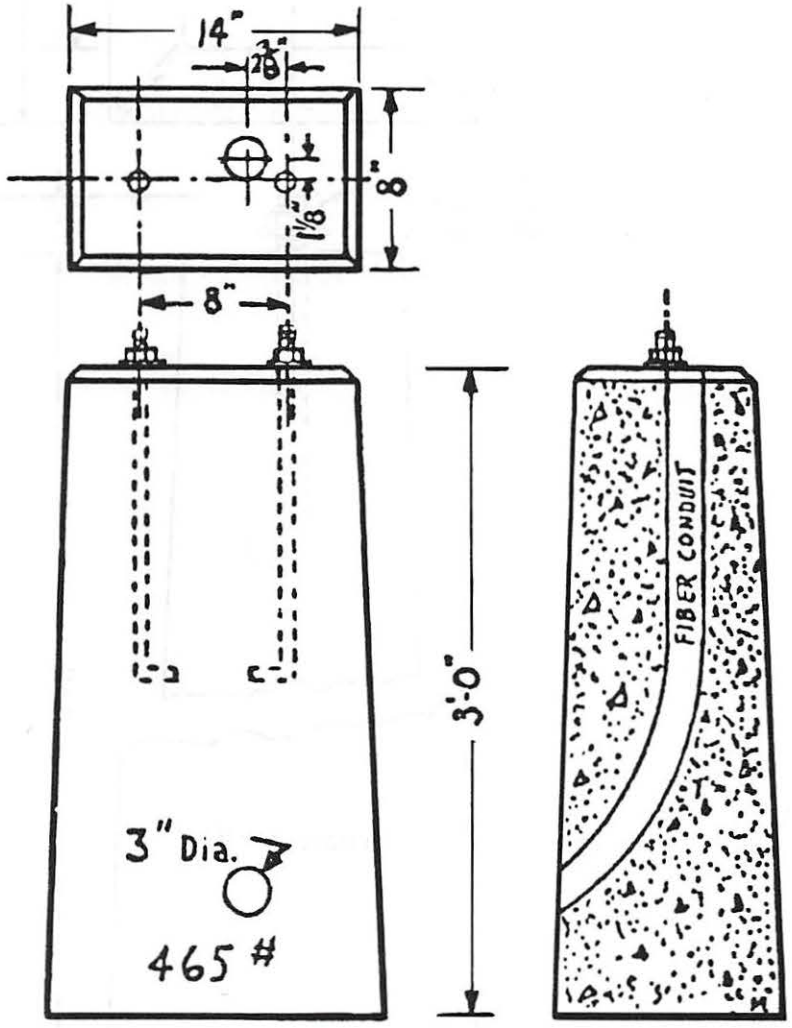
COLORLIGHT DWARF SIGNAL FOUNDATION **SF-12**



PRECAST CONCRETE DWARF SIGNAL
DETAILS AND ASSEMBLY

							M-1959	OCT. 1959	AAR SIG. SEC. 1581A

Nuts and threads shall be in accordance with Specifications for Bolts, Nuts and Threads. Manual Part 17. Plain washers shall be in accordance with Specifications for Plain and Spring Lock Washers, Manual Part 35. Steel shall be in accordance with Specifications for Various Types of Steel, Manual Part 154, Section 1.

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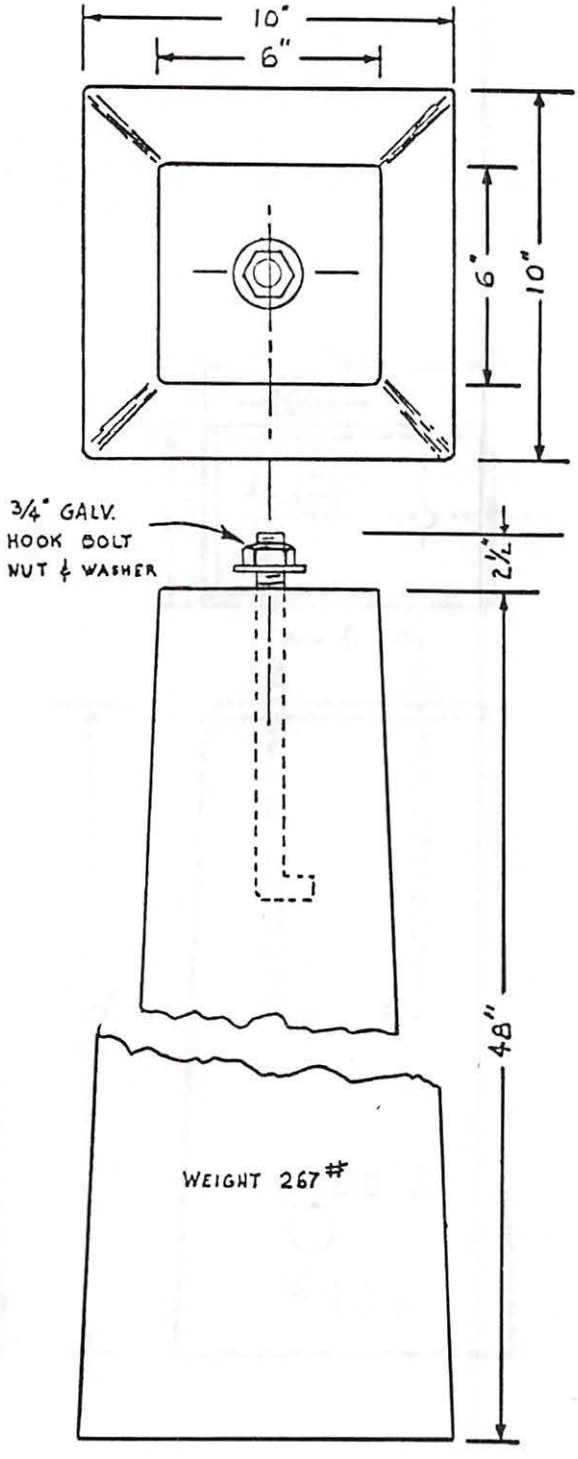

PRECAST RELAY HOUSE PIER

DETAILS AND ASSEMBLY

							M-1959	OCT. 1959	AAR SIG. SEC. 1581A

Nuts and threads shall be in accordance with Specifications for Bolts, Nuts and Threads. Manual Part 17. Plain washers shall be in accordance with Specifications for Plain and Spring Lock Washers, Manual Part 35. Steel shall be in accordance with Specifications for Various Types of Steel, Manual Part 154, Section 1.

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CONCRETE PRODUCTS AND FOUNDATIONS **PRICE LIST**

(Prices Effective January 1, 1978)

Prices for component parts not listed or for special designed items will be quoted on request.

FLASHER FOUNDATIONS

Fdn.	Height	Total Weight	Bolt Length	Price
SF-1	2'6"	544#	32¼"	$ 76.20
9½" × 9½"	3'6"	702	44¼"	97.00
	4'6"	806	56¼"	110.50
	5'6"	910	68¼"	123.25
SF-1X	4'7½"	860	58¼"	112.35

GATE FOUNDATIONS

SF-2	3'6"	1096	44¼"	105.40
11-11/16" Sq.	4'6"	1293	56¼"	119.10
	5'6"	1490	68¼"	132.30
	6'6"	1686	80¼"	146.00
	7'6"	1882	92¼"	159.50
	8'6"	2078	104¼"	175.25
SF-2X	3'6½"	996	44¼"	105.40
11-11/16" Sq.	5'7½"	1368	69¼"	132.30

CANTILEVER, GATE AND BRIDGE FOUNDATIONS

For 24 Ft. Rotatable Alum. Cantilever Signal

SF-9-2	6'8"	3070	1" × 82½"	199.75
11-11/16" Sq.	7'8"	3330	1" × 94½"	220.50
SF-9-2X	6'8"	3115	1¼" × 82½"	206.70
11-11/16" Sq.	7'8"	3375	1¼" × 94½"	241.50
w/1¼" ø Bolts				

Bracket Mast Fdn. Assembled

SF-10	7'0"	6590	1½" × 88"	339.50
20" × 20"	8'0"	7182	1½" × 100"	382.20
SF-10-2	8'0"	9400#	1¼" × 100½"	377.00
11-11/16" Sq.				

Prices are subject to change without notice. Prices quoted are F.O.B. Scranton, Pa.

Sectional Foundations, Inc.
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Fdn.	Height	Total Weight	Bolt Length	Price
Safetran Walkout Cantilever Foundations				
SF-10W	12' & 14' Arm			
19" × 19"	7'0"	6500	1½" × 90¼"	$414.00
	16' Arm			
	8'0"	7070	1½" × 102¼"	445.00
Price Includes 3 Nuts and Washers Each Bolt for Leveling Available with 1720 lb. Base Special Order as SF-10WM				
SF-10-3W	18' & 20' Arm			
19" × 19"	7'1"	8580	1½" × 91¼"	479.00
	22' to 30' Arm			
	8'1"	9165	1½" × 103¼"	510.00
Price Includes 3 Nuts and Washers Each Bolt for Leveling				
SF-10-3WS	Same as SF-10-3W except has four part sectional base, each piece 1650			
19" × 19"	lbs. for handling with light equipment.			
	7'1"	10,860	1½" × 91¼"	619.00
	8'1"	11,240	1½" × 103¼"	662.00
Price Includes 3 Nuts and Washers Each Bolt for Leveling				
WABCO Walkout Cantilever Foundations				
SF-10-1	8' to 16' Arm			
	7'1"	8065	1" × 91¼"	364.00
Price Includes 3 Nuts and Washers Each Bolt for Leveling				
SF-10-1Q	17' to 22' Arm			
	7'1"	8145	1¼" × 91¼"	402.00
Price Includes 3 Nuts and Washers Each Bolt for Leveling				
SF-10-3W	23' to 28' Arm			
	7'1"	8580	1½" × 91¼"	479.00
	29' to 31' Arm			
	8'1"	9165	1½" × 103¼"	510.00
Price Includes 3 Nuts and Washers Each Bolt for Leveling				
SF-10-3WS	Same as SF-10-3W except it has four part sectional base, each piece 1650			
	lbs. for handling with light equipment.			
	7'1"	10,860#	1½" × 91¼"	619.00
	8'1"	11,240	1½" × 103¼"	662.00
Price Includes 3 Nuts and Washers Each Bolt for Leveling				

BATTERY BOXES

Air Cell Battery Box—One Cell Box with metal cover and vent cover	80#	30.50
Junior Battery Box—20" × 24" I.D.		
Box with metal cover, slat bottoms & vent cover	366#	77.00
Box with metal cover, slat bottoms, 2 terminal boards, and frost cover	376#	86.00
Box as above, complete w/insulation 4 sides	390#	93.00
Box as above, complete w/insulation plus locking	395#	110.00

Prices are subject to change without notice. Prices quoted are F.O.B. Scranton, Pa.

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Sectional Concrete Battery Boxes

Box with slat bottoms, frost cover, terminal boards, metal cover and accessories:

Box complete, including insulation on 4 sides:

	Wt.	Price	Wt.	Price
SF665	581#	$116.00	598#	$121.00
SF666	890	149.00	913	155.00
SF667	1471	268.00	1496	279.00
SF668	1777	298.00	1857	310.00

Notes:

Size SF667 consists of one each #SF665 and #SF666
Size SF668 consists of two #SF666's
Both complete with Accessories and 4" conduit connector

One Piece Concrete Battery Boxes—Comp. with metal cover, frost cover, term bds., slat bottoms & ½" Celotex ins. on 4 sides

10-Cell - 30" × 30" I.D.	Wt. 885# Comp.	$120.00
16-Cell - 36" × 36" I.D.	Wt. 1100# Comp.	151.00
10-Cell Complete with 3" Diam. Pipe		128.00
16-Cell Complete with 3" Diam. Pipe		164.00

INSTRUMENT CASE FOUNDATIONS

Plan	Dim. "A"	Item	Shipping Weight	Price
SF-5	1'3"	2-Peds Only	472#	$32.45
SF-5A	1'6½"	2-Peds Only	472	32.45

1 Bag—Bolts, Nuts, Washers, attached to each Strut
Each Bag Contains:(4) ¾" × 4½" Galv. Bolts w/Nut & Washer
(4) ¾" × 2½" Galv. Studs w/Washer only.

(4) ¾" × 7" or (4) ¾" × 9" galv. bolts substituted for the 4½" @ $1.90 Extra for lot of (4)

MONOLITHIC—"M" SERIES FOUNDATIONS

Ref	Bolt Centers	Use	Height	Weight	Price
SF-1	9½" × 9½"	Cable Post FDns.	4'0"	965#	$ 85.10
SF-2	11-11/16" Sq.	Ground Signals 1" ø Bolts	6'0"	3450	195.00
SF-11	6" × 8"		3'6"	675	44.50
SF-12	8" c-c	Dwarf Sigs. N&N2	3'0"	460	45.50
SF-13	8" × 8" - for Style H-5 cable ent. 3½" off center		3'6"	890	60.85

Prices are subject to change without notice. Prices quoted are F.O.B. Scranton, Pa.

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INSTRUMENT CASE PIERS

		Height	Weight	Price
SFCP-392	¾" Hook Bolts – 1½" Ext.	4' High	365#	$25.40
SFCP-392-A	¾" Inserts w/2, ¾" × 2½"	4' High	365	22.25
	H.H.C.S. and Washers	5' High	430	23.35
SFCP-392-B	¾" Hooks Bolts, 5" Ext.	4' High	365	25.40
		5' High	430	26.85
SFCP-392-C	¾" × 16" Hook Bolts 5½" Ext.	5' High	430	26.85
	Galvanized Nuts & Washers Supplied with Hook Bolts			
SFCP-962	¾" Hook Bolt & Hardware	4' High	230	21.35
Relay House Pier SFHP-607 6" sq. to 10" sq. ×		48" H	267	15.75
Relay House Pier SFHP-761 7½" sq. to 18" sq. ×		36" H	615	26.50
Relay House Pier SFHP-761 -4 7½" sq. to 18" sq. ×		48" H	1025	31.20

Prices are subject to change without notice. Prices quoted are F.O.B. Scranton, Pa.

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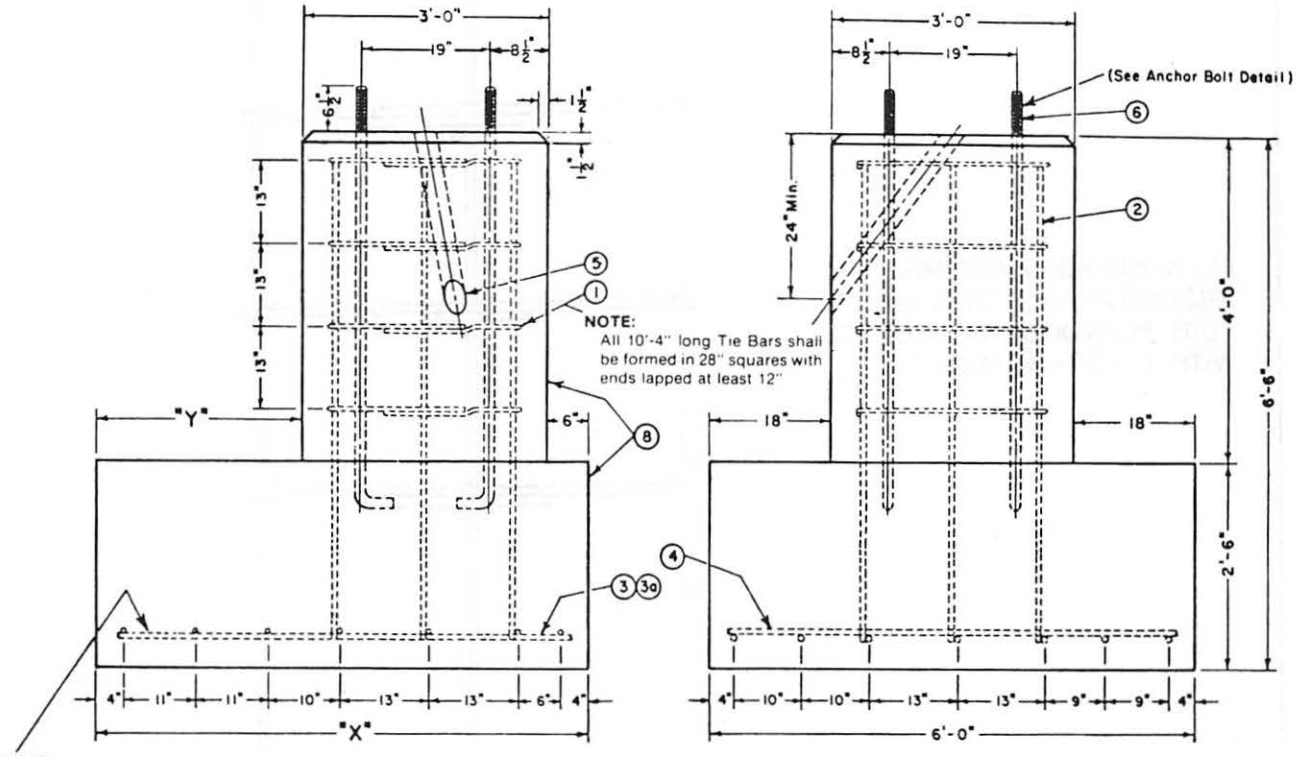
SECTIONAL CONCRETE FOUNDATION ASSEMBLY



NOTE:
When "X" is 8'-0" two additional No. 5 bars (item 4) spaced 12" apart must be added.

CONCRETE FOUNDATION ASSEMBLY ("X" = 6'-0"; "Y" = 2'-6") SF - X-6Y-26

For Aluminum Walkout Cantilever Highway Crossing Flashing Light Signal
with Cantilever Arm 24 feet long and less

CONCRETE FOUNDATION ASSEMBLY ("X" = 8'-0"; "Y" = 4'-6") SF X -8Y-46

For Aluminum Walkout Cantilever Highway Crossing Flashing Light Signal
with Cantilever Arm 25 feet to 32 feet long

GENERAL NOTES:

1. Concrete shall be in accordance with A.R.E.A. Chapter 8, Specification For Concrete Structures and Foundations. High Early Strength Type III cements shall be used. Type I, Normal cement may be substituted if Type III is not available. Cement shall conform to ASTM Spec. C-150 with a minimum cement content of 6 bags per cubic yard and a maximum water content of 5½ gallons per bag. The concrete shall attain a minimum compressive strength of 4000 psi at age of 28 days. At least 7 days is required before mounting signal.
2. Top of foundation to be no more than 4" above surface of ground for roadways with vertical curbs. At locations without curbing the top of foundation shall be level with surface of the traveled roadway and no more than 4" above surface of ground.
3. All tie bars to be at least 3" in concrete from outside edge.
   a. Spacing dimensions shown in drawing above for tie bars are approximate.
   b. Tie wires to be used to secure intersecting tie bars.
4. After setting signal, it is to be leveled by adjusting leveling nuts and the space between base plate and foundation top is to be grouted with a sand/cement mix.
   a. Anchor bolt and leveling nut threads are to be lubricated to prevent corrosion and clogging when grouted.
   b. Threads of anchor bolts shall not be embedded in concrete.
5. SF-X-8Y-46 is for an assembly of four 1½" dia. × 60" lg. galvanized bolts with nuts, washers and spacers for 19" bolt centers.

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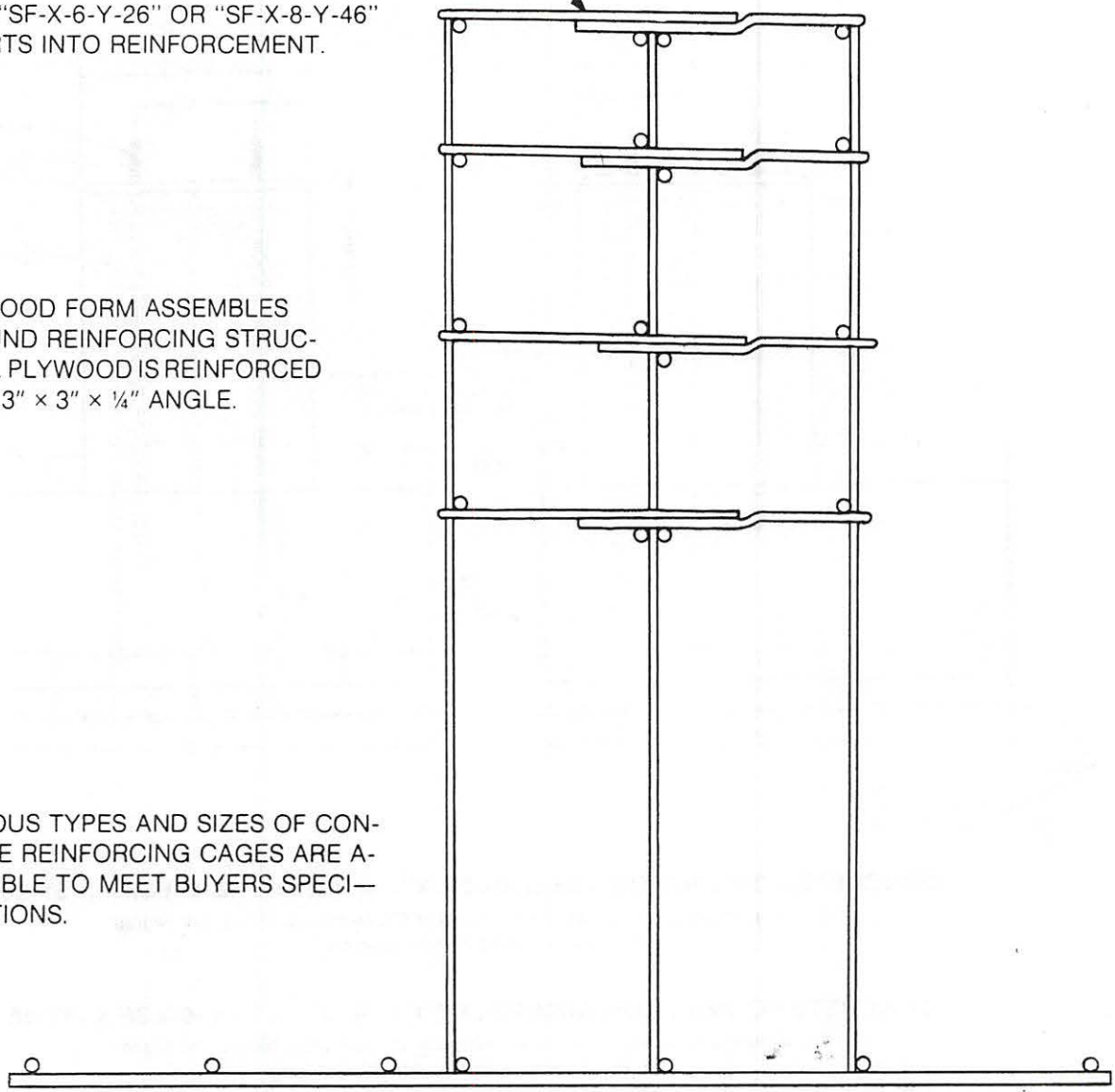
CONCRETE FOUNDATION ASSEMBLY ITEM "SF-X-6-Y-26" OR "SF-X-8-Y-46" INSERTS INTO REINFORCEMENT.

PLYWOOD FORM ASSEMBLES AROUND REINFORCING STRUCTURE. PLYWOOD IS REINFORCED WITH 3" × 3" × ¼" ANGLE.

VARIOUS TYPES AND SIZES OF CONCRETE REINFORCING CAGES ARE AVAILABLE TO MEET BUYERS SPECIFICATIONS.



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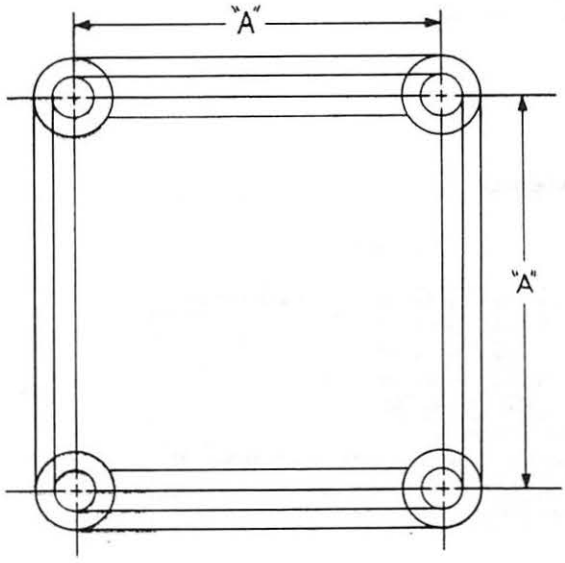
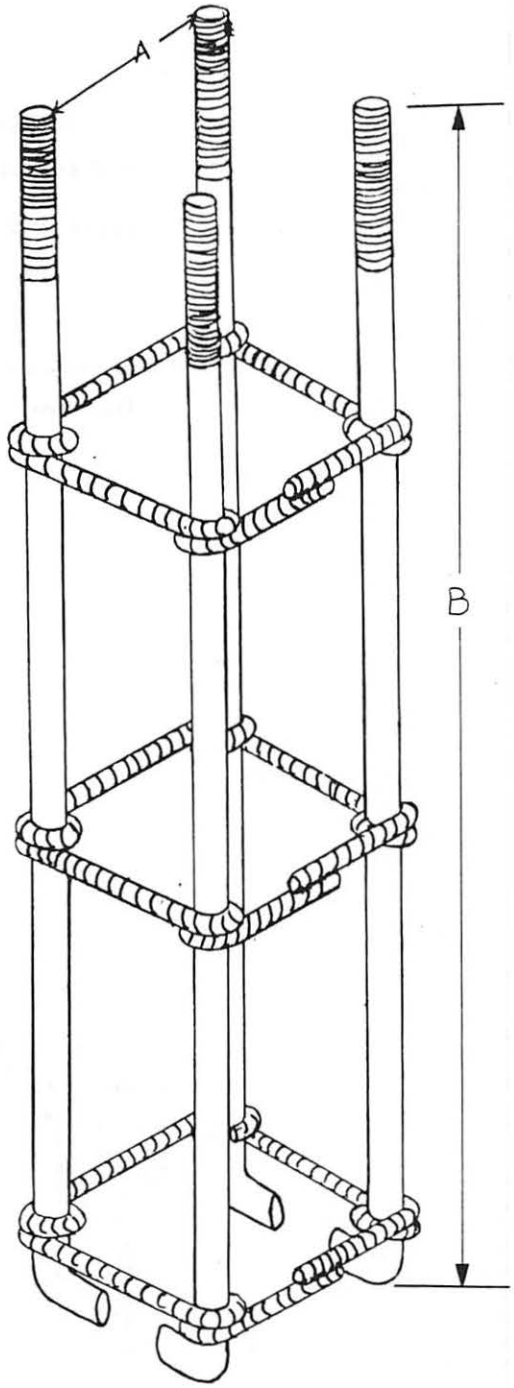
CONCRETE FOUNDATION ASSEMBLY

"A" Specify Bolt Spacing + Bolt Diameter in inches

Length "B"	Bolt Diameter
9½	¾
12	½
12	¾
12	1
16	¾
16	1
18	¾
24	1
36	1
36	1¼
42	1—1¼
42	1¼—1½
60	1—1¼—1½
60	1—1¼—1½
74	1¼—1½
87	1¼—1½
120	1½

NOTE: ALL DIMENSIONS ARE IN INCHES.





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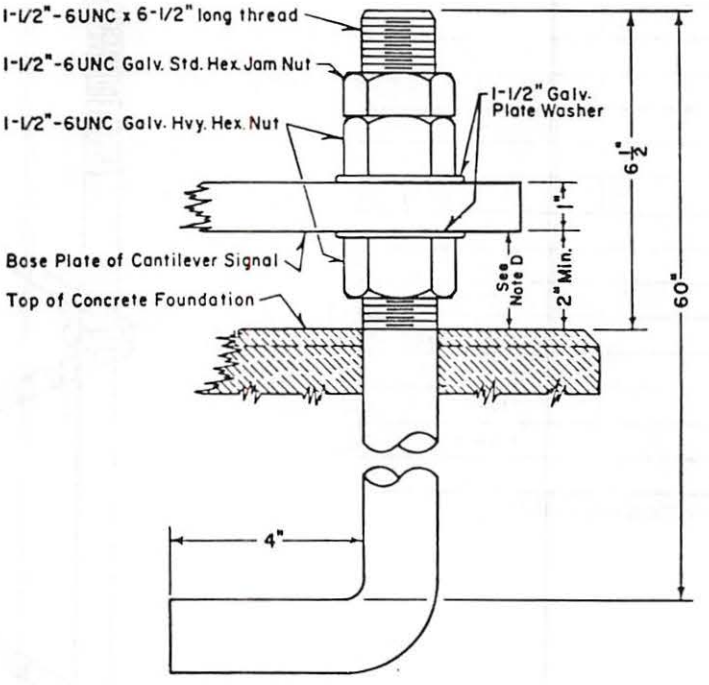
P. O. BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985

SECTIONAL CONCRETE FOUNDATION ASSEMBLY



Cantilever Signal Leveling Method
and
Galvanized Anchor Bolt Detail

MATERIALS

Item	No. Req'd. for Foundation Assy. No.		Unit	Description
	X6Y26	X8Y46		
1	4	4	Ea.	No. 3, (⅜" Dia.) Tie Bar, 10'-4" long with 12" lap.
2	8	8	Ea.	No. 6, (¾" Dia.) Tie Bar, 70" long.
3	7		Ea.	No. 6, (¾" Dia.) Tie Bar, 64" long.
3a		7	Ea.	No. 6, (¾" Dia.) Tie Bar, 88" long.
4	7	9	Ea.	No. 5, ⅝" Dia.) Tie Bar, 66" long.
5	3	3	Ft.	Conduit, 3" Rigid PVC
6	4	4	Ea.	Bolt, Anchor (Refer to detail below and to Note 5)
7	1	1	Coil	Tie Wire, No. 16 AWG
8	5	6	Cu. Yd.	Concrete (Refer to General Note 1)

Sectional Foundations, Inc.
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PRICE LIST
FIELD POURED FOUNDATIONS

(Prices Effective January 1, 1978)

Concrete Foundation Assembly

SF-X6Y	2'6"	Frame (cage) and Bolts	$ 380.00
		Form	1,854.00
SF-X8Y	4'6"	Frame (cage) and Bolts	$ 408.00
		Form	$1,854.00

All forms are plastic coated ¾" exterior plywood, reinforced with 3" × 3" × ¼" angle iron with quick clamps for easy dismanteling.

Bolt spacing and bolt sizes are manufactured to buyer's individual specifications at no extra cost.

Prices are subject to change without notice. Prices quoted are F.O.B. Scranton, Pa.

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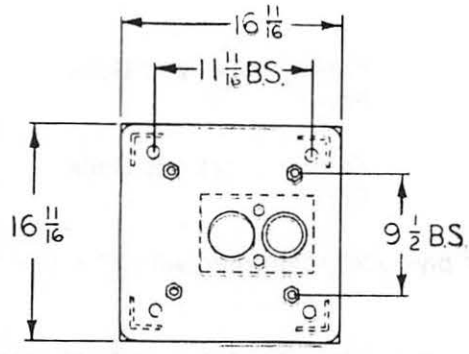

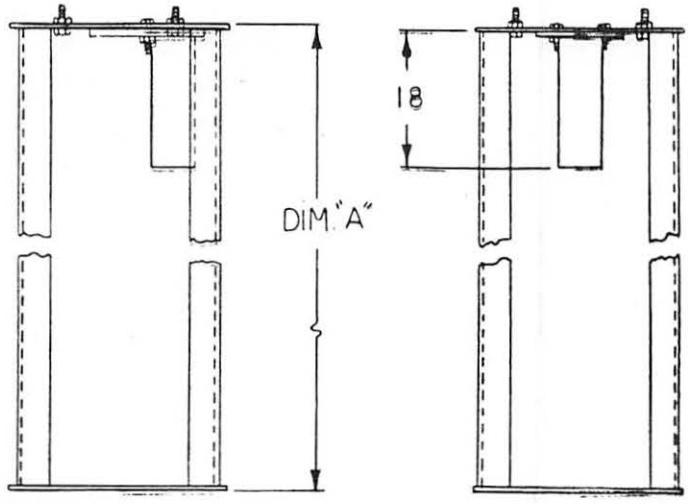

SF-130-X, SF-131-X, & SF-132-X
FLASHING LIGHT SIGNAL FOUNDATIONS
HOT DIP GALVANIZED STEEL CADMIUM PLATED HARDWARE

Part No.	Qty.	Description	Part No.	Qty.	Description
SF-130-X		Dim. "A" = 36½	SF-101-A	4	Hex bolt
SF-131-X		Dim. "A" = 48½	SF-101-B	4	Hex nut
SF-132-X		Dim. "A" = 60½	SF-130-A	2	Hex bolt
SF-130-4	1	Cable pipe weldment	SF-130-B	2	Hex nut

NOTE: SUFFIX "X" INDICATES COMPLETE ASSEMBLIES.

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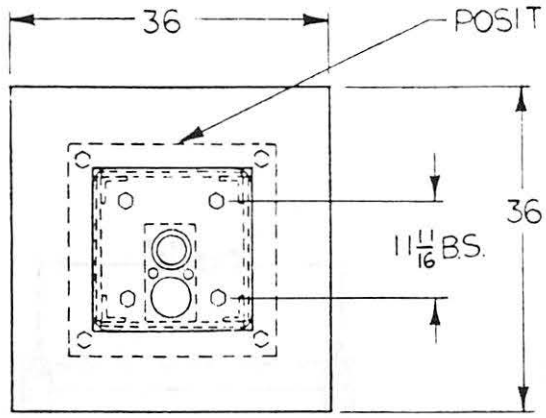

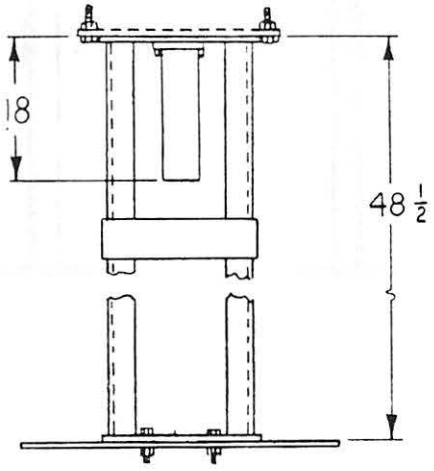

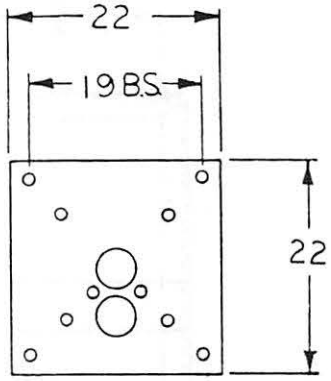

ADAPTER PLATE KIT
SF-40-2

USED FOR 19" BOLT SPACING ONLY.
ORDERING REFERENCE FOR (1) COMPLETE FOUNDATION SF-40-2X INCLUDES
(1) SF-140-X
(1) SF-140-2 PLATE.
(4) SF-140-A
(4) SF-140-B

SF-140-X & SF-140-2X
AUTOMATIC CROSSING GATE FOUNDATIONS
HOT DIP GALVANIZED STEEL CADMIUM PLATED HARDWARE

Part No.	Qty.	Description
SF-140-X		Complete foundation 11-11/16" B.S.
SF-140-2X		Complete foundation 19" B.S.
SF-140-2	1	Adapter plate
SF-130-4	1	Cable pipe weldment
SF-130-A	2	Hex bolt
SF-130-B	2	Hex nut
SF-140-A	8	Hex bolt
SF-140-B	8	Hex nut

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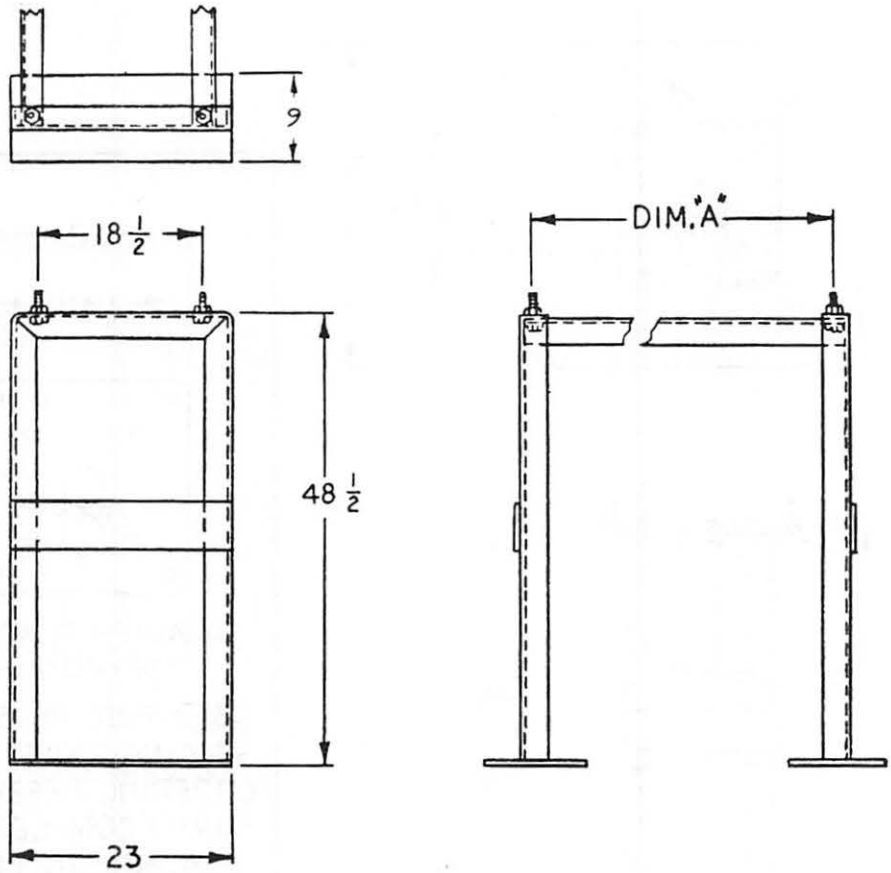


SF-110-X, SF-111-X, & SF-112-X
INSTRUMENT CASE FOUNDATIONS
HOT DIP GALVANIZED STEEL CADMIUM PLATED HARDWARE

Part No.	Qty.	Description
SF-110-X		Dim. "A" = 39½
SF-111-X		Dim. "A" = 80¼
SF-112-X		Dim. "A" = 112¼
SF-101-1	2	Inst. case pier
SF-110-1	2	Spacer (39½)
SF-111-1	2	Spacer (80¼)
SF-112-1	2	Spacer (112¼)
SF-101-A	4	Hex bolt
SF-101-B	4	Hex nut
SF-101-C	4	Flat washer

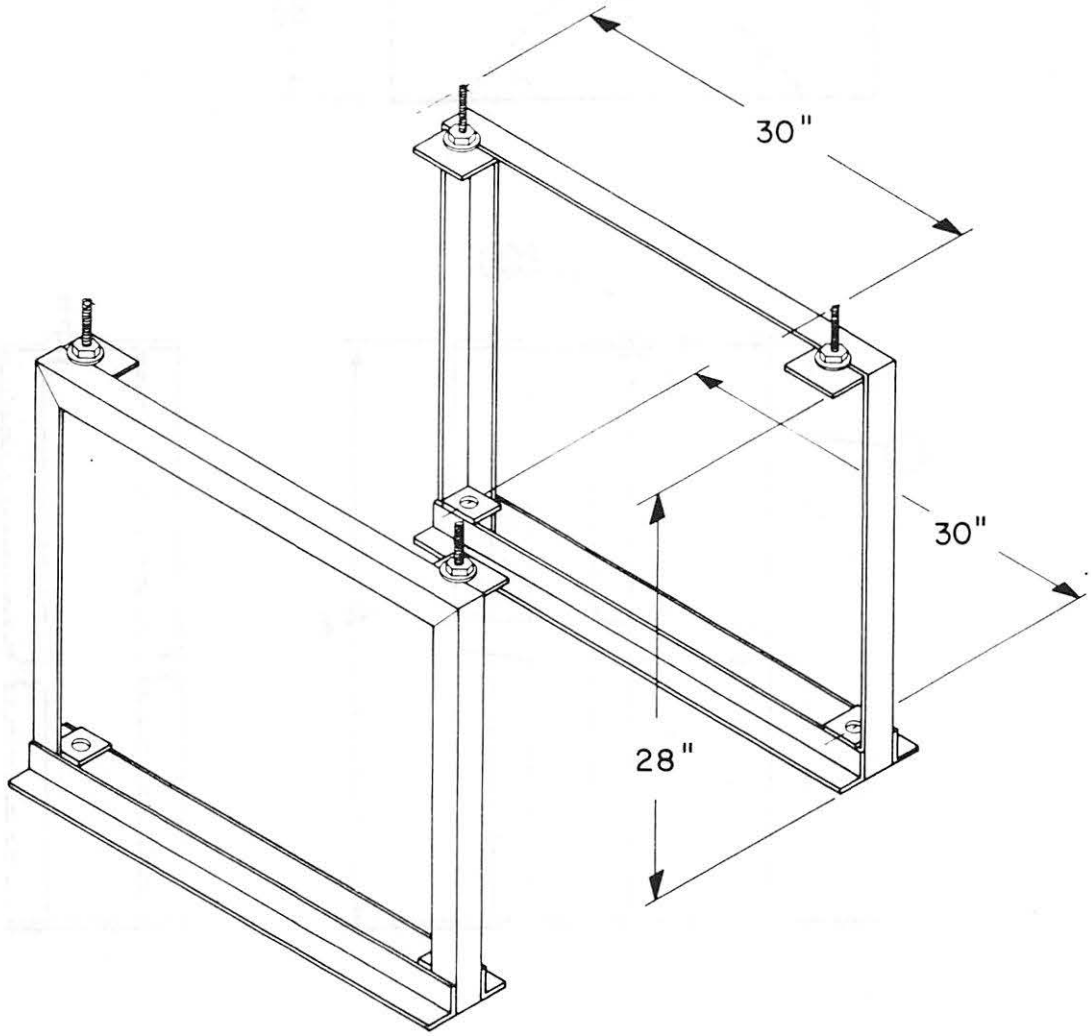
$ 116.00
136.00

P&V phone conv. 2/17/78 with MR.?

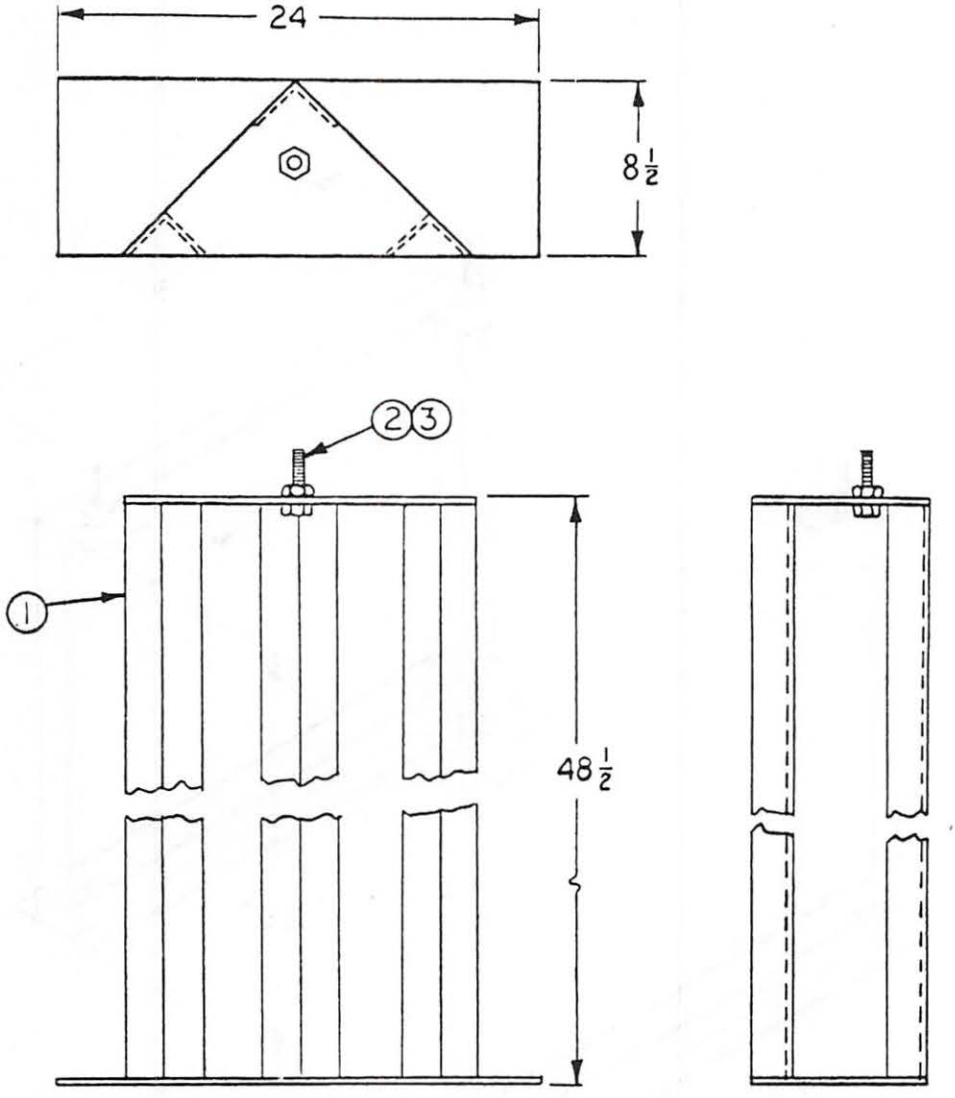
NOTE: SUFFIX "X" INDICATES COMPLETE ASSEMBLIES.

Sectional Foundations, Inc.
P O BOX 1438 SCRANTON, PA 18503 (717) 343 8985

STEEL
GALVANIZED **SFTH-28-30**
TELEPHONE HOUSE FOUNDATION



Sectional Foundations, Inc.
P. O. BOX 1438 - SCRANTON, PA 18503 - (717) 343-8985



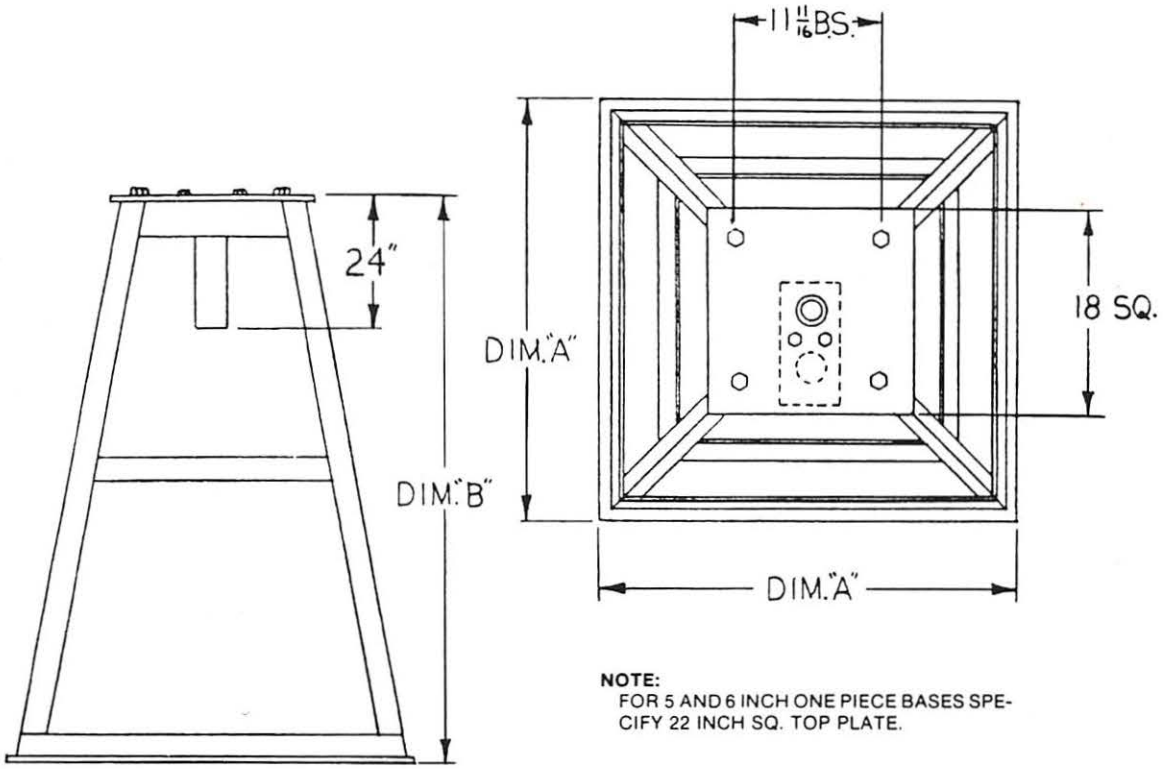
SF-126-X

INSTRUMENT HOUSE FOUNDATION

HOT DIP GALVANIZED STEEL CADMIUM PLATED HARDWARE

Item	Part No.	Qty.	Description
1	SF-126-1	1	Inst. house foundation
2	SF-101-A	1	Hex bolt
3	SF-101-B	1	Hex nut

Sectional Foundations, Inc.
P. O. BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985



NOTE:
FOR 5 AND 6 INCH ONE PIECE BASES SPECIFY 22 INCH SQ. TOP PLATE.

SIGNAL FOUNDATIONS

HOT DIPPED GALVANIZED STEEL CADMIUM PLATED HARDWARE

Part No.	Qty.	Dim. "A"	Dim. "B"	Description
SF-150-X		48	60	3 unit signal or cantilever signal
SF-160-X		32	72	1 & 2 unit signals
SF-170-X		32	60	
SF-180-X		32	48	
SF-190-X		32	42	
SF-130-4	1	—	—	Cable pipe weldment
SF-130-A	2	—	—	Hex bolt
SF-130-B	2	—	—	Hex nut
SF-150-A	4	—	—	Hex bolt
SF-150-B	4	—	—	Hex nut

NOTE: SUFFIX "X" INDICATES COMPLETE ASSEMBLIES.

Sectional Foundations, Inc.
P O BOX 1438 · SCRANTON, PA 18503 · (717) 343-8985

PRICE LIST
STEEL FOUNDATIONS

(Prices Effective January 1, 1978)

Prices for steel foundations are given upon request.

National Association of Purchasing Management

QUALITY ASSURANCE PROGRAM

NAPM Rail Industry Forum

THIS CONFIRMS THAT

Dixie Precast, Inc.

HAS MET THE REQUIREMENTS OF THE
QUALITY SYSTEM STANDARDS SUBCOMMITTEE
QUALITY ASSURANCE PROGRAM

Phone 770-944-1930
Fax 770-944-9136

DIXIE PRECAST, INC.

RECEIVED
FEB 26 1997

FRANKLIN BROWN
Res.: 706-754-3196

2950 ANGELETTE DRIVE
AUSTELL, GEORGIA 30001

REGISTRATION NUMBER: 1404
FACILITY LOCATION: Austell, GA
PRODUCT/SERVICE: Commuication & Signal (Pre-cast foundati
REGISTRATION DATE: 09/25/95
EXPIRATION DATE: 97/11

Chairman Quality System Standards Subcommittee

DIXIE PRECAST, INC.
2950 ANGELETTE DRIVE, AUSTELL, GEORGIA 30001
(770) 944-1930 FAX: (770)-944-9136

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STANDARD SPECIFICATIONS

1. Reinforcement steel should be welded into mats or cages to assure proper placement and alignment. Bars and ties shall be in accordance with Manual Part 15.1.4 (Recommended Developmental Criteria for Various Types of Steel). Reinforcement steel shall be placed not less than one inch from outside surface.

2. Bolts, nuts, and threads shall be in accordance with Manual Part 14.6.20 (Recommended Design Criteria for Bolts, Nuts, and Threads).

3. Washers shall be in accordance with Manual Part 14.6.21 (Recommended Design Criteria for Plain and Spring Washers).

4. Bolts, nuts, and washers shall be galvanized or cadmium plated in accordance with Manual Part 15.3.1 (Recommended Developmental Criteria for Metallic Coating of Metals).

5. Concrete shall be in accordance with American Railway Engineering Associations Specifications for concrete structures and foundations Chapter 8. Coarse aggregate shall consist of one half inch maximum size stone or gravel. Air-intrainment not to exceed four (4) percent. The concrete shall have a compressive strength which shall not be less than 5,000 pounds per square inch after 28 days.

6. Top and bottom surfaces of all parts shall be flat and parallel.

7. Chemical additives to the concrete shall not be used.

8. All weights shown on components in drawing are approximate. All drawings are not to scale.

9. When prepared for shipment the nut cavities or any coil loop inserts must be sealed with cap or threaded plug to avoid intrusion of ice, cement slurry or other blockages.

10. When preassembled the gross weight of the assembly shall be indelibly marked on each assembly before shipment. When preassembled and pallet shipped the total weight shall be marked on each shipping tag.

11. Steel plate and nut assemblies shall be placed such that when assembled the bolts will be perpendicular to the base plate upper surface within one degree of perpendicular.

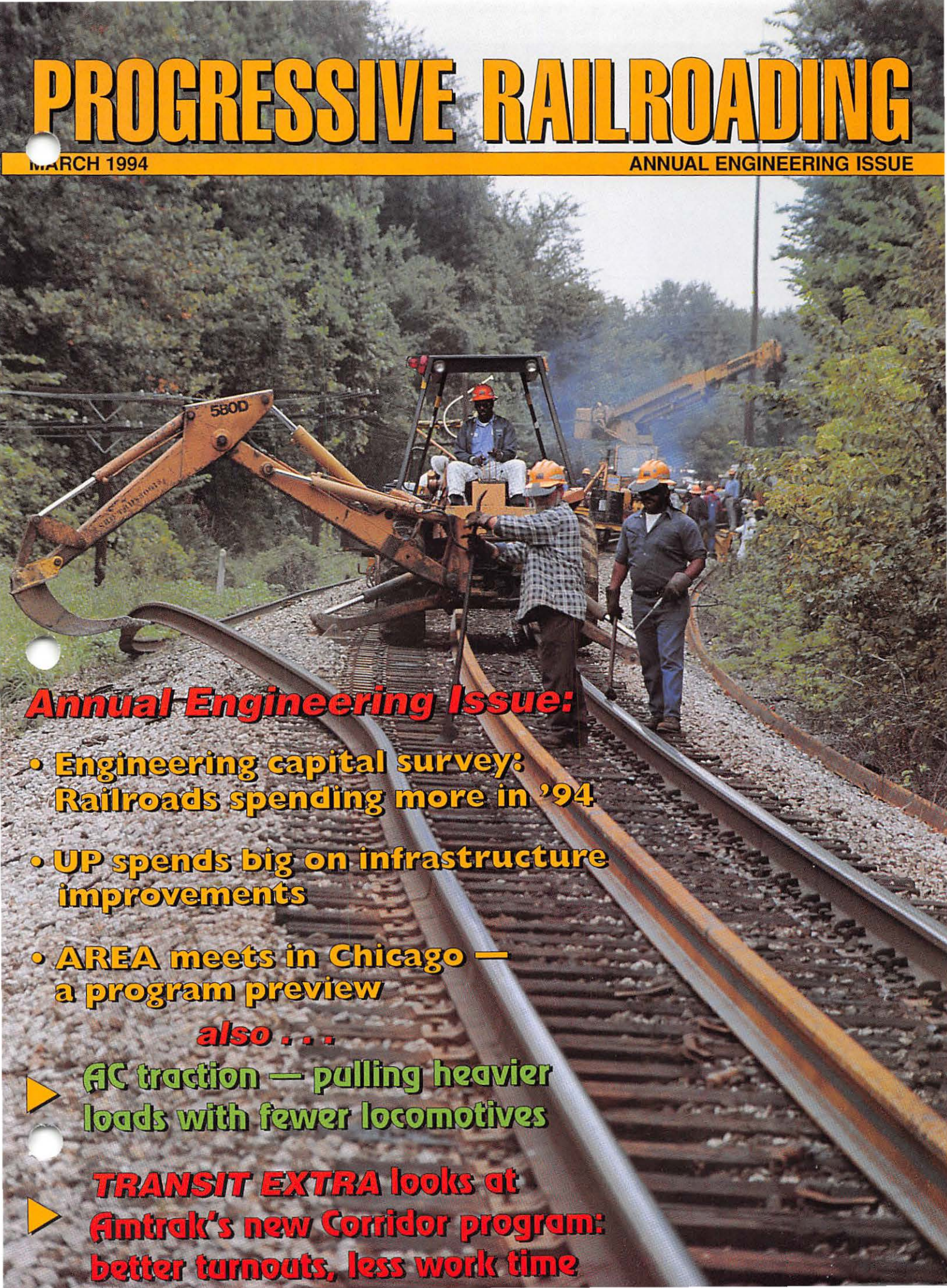
12. Coil loop inserts, if used, shall be in accordance with specifications of the precast manufactures's concrete inserts and the coil eye bolt shall support a load of not less than 3.000 pounds when screwed into the insert.

13. All bolts shall be taped to protect threads in shipping.

14. All foundations shall be marked with date of manufacture.

PROGRESSIVE RAILROADING

MARCH 1994 ANNUAL ENGINEERING ISSUE



Annual Engineering Issue:

- Engineering capital survey: Railroads spending more in '94
- UP spends big on infrastructure improvements
- AREA meets in Chicago — a program preview

also . . .

- AC traction — pulling heavier loads with fewer locomotives
- *TRANSIT EXTRA* looks at Amtrak's new Corridor program: better turnouts, less work time

Concrete slabs that are produced in a plant are placed in the tower foundation opening. This eliminates the need for deep digging, shoring up the hole being dug, setting up the required network of steel reinforcing rods and bringing the concrete to the site in ready-mix trucks.

Low-profile tower foundations save steps, time

Precast units simplify procedures and save time for foundation work for signal, communications and lighting structures

Another feature of precast over poured concrete that might prove to be an advantage for railroads has been developed and proved out by initial installations on the Norfolk Southern.

Using the recently developed system, when installing tower foundations there is no need for deep digging, shoring up the hole being dug, setting up the required network of steel reinforcing rods, bringing the concrete to the site in ready-mixed concrete trucks, and then the time delay for concrete curing.

Photos courtesy Dixie Precast

Workman secures tower base to precast concrete slabs. With this system the foundation hole is relatively shallow, easing the job and saving time.

Instead, precision-cast concrete slabs are produced in a concrete products plant, transported to the job site and placed in the foundation opening. The positioning of each slab is guided by large-diameter steel guide bolts set in the bottom slab.

No workers are required to be down in the excavation to guide the positioning. All the lifting and maneuvering is done with a crane.

A typical grade crossing system using single,

double and four mast cantilevers should be ready for installation of the mast and cantilever by noon of the first day on the site.

The new low-profile foundations were a joint development of Dixie Precast of Austell, Ga., and the Norfolk Southern.

Stress tests in the laboratory and in the field were carried out by Norfolk Southern's Research and Test Department. Its calculations indicated the low-profile foundation wasapproximately 1.5 times stronger in torsion than would be required to sustain a 100 mph wind and 3.3 times stronger against overturning that would be required to sustain a snow load of 20 psf.

Tom Riley, project engineer-signal and electrical construction, for the eastern region of Norfolk Southern, became concerned over the hours, effort and extreme caution required to excavate and use shoring devices for the more conventional foundations. That was partly because the foundations required digging down some nine ft. to provide the required stability for the associated structure.

Larger size means less digging

Dixie Precast imparted another perspective. By using bottom slabs 6-1/2 ft. square instead of 2-to-3 ft., 6 in. x 6 ft., 6 in. slabs the required stability could be achieved by going down only five ft. instead of the previous 9-1/2 ft. Even though about one-half as deep, the concrete mass in the foundation provides bearing weight and center of gravity that exceed the stress limits for the loads sustained.

The larger 6-1/2 ft. square-base slabs vary from four to six or seven in. thick and weight between 3,100 and 3,900 lbs. each. Their total weight set in the ground ranges between 15,800 and 32,000 lbs. depending on the foundation used. The slabs lock together by vertical steel bolts that also serve to guide each slab into position by the construction crane.

The three to five smaller slabs resting on them weigh 200 to 250 lbs. each depending on the number used. The combination of precast concrete units locked together as one, provides more than an adequate base for the structure it supports and at the same time cuts down substantially on installation time. ■

Important contacts at Dixie Precast:

A.M. Angelette, President
Mitch Angelette, Production
Franklin Brown, Sales
Phone: (404) 944-1930

Sales Representatives:
James Everett
Eastern Sales Office
17330 Frederick Road
Mt. Airy, Maryland 21771
Phone: (301) 831-7833
Fax: (301) 831-7834

George Harper
4075 Briarforest Road E.
Jacksonville, FL 32211
Phone: (904) 744-0183
Fax: (904) 744-0183

For additional information contact:

Dixie Precast
2950 Angelette Drive
Austell, Ga. 30001
Office: (404) 944-1930
FAX: (404) 944-9136

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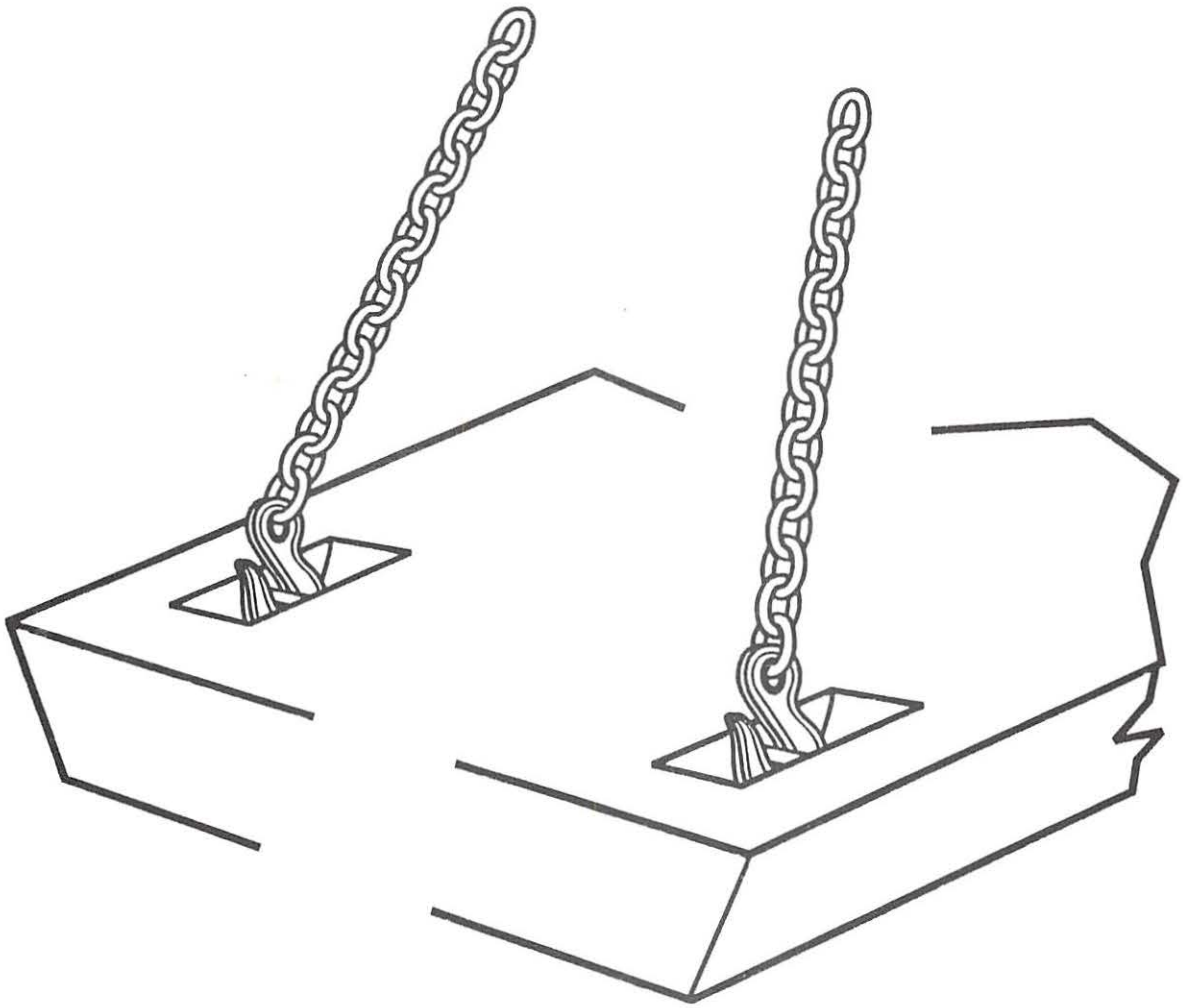

DETAIL OF LIFTING INSERTS

FOR: ALL SLABS

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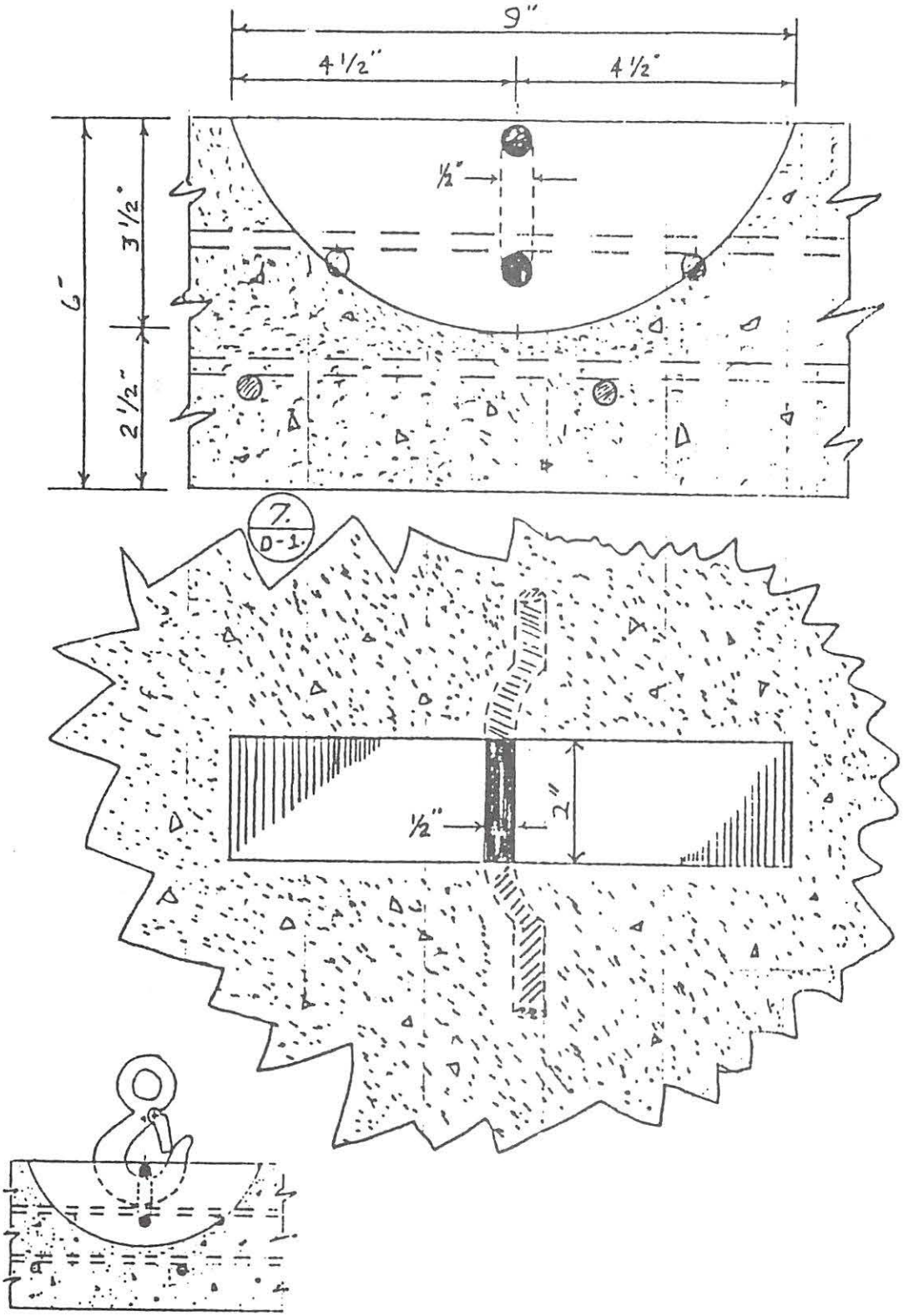

LIFTING INSERTS

FOR: ALL SLABS

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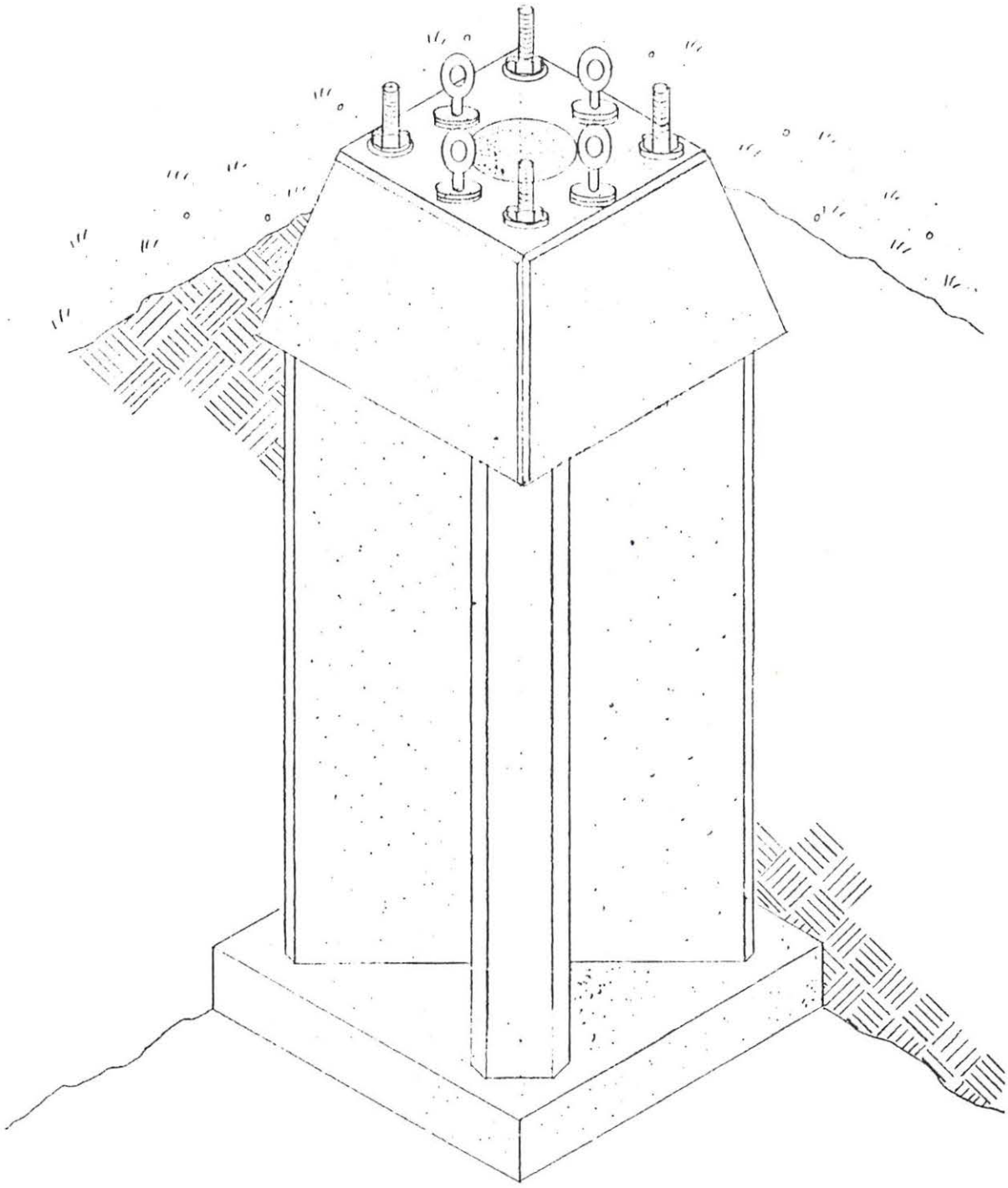

DPS - 1A

FOR: FLASHING SIGNAL LIGHTS

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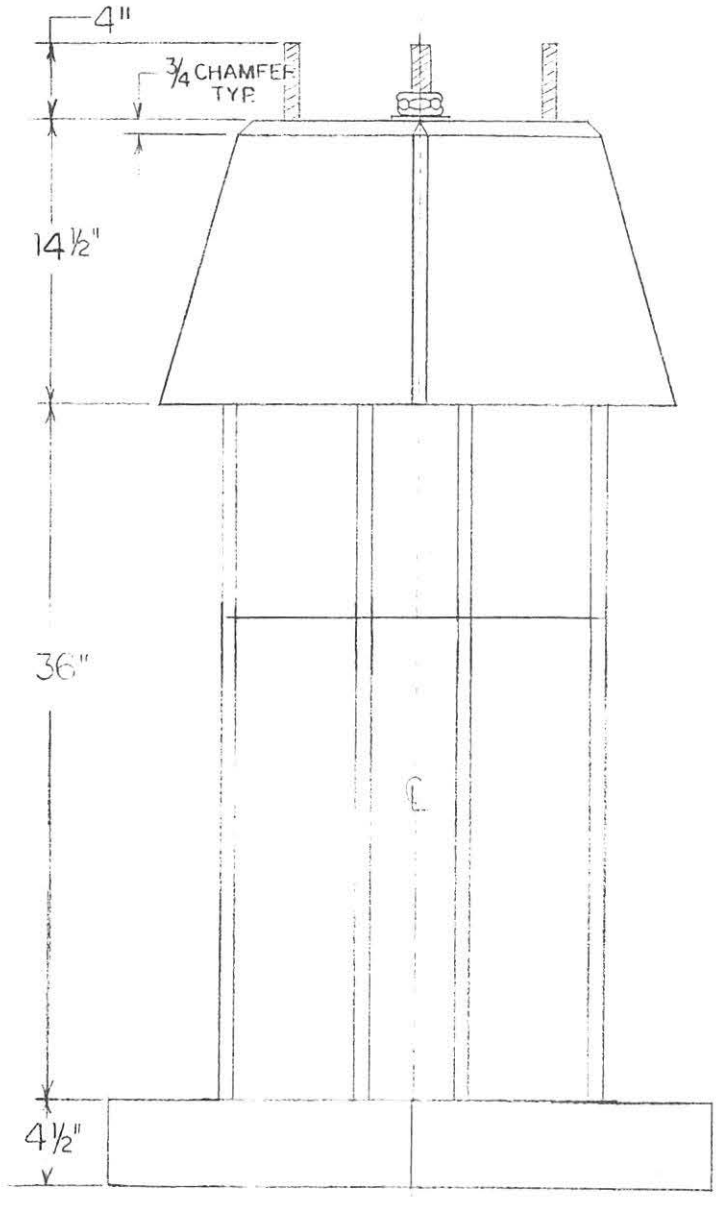

SIZE - WEIGHT
3'-6" @ 815#
4'-6" @ 985#
5'-6" @ 1165#
Ship Assembled
Bolt Pattern:
9-1/2" X 9-1/2"

DPS - 1A

FOR: FLASHING SIGNAL LIGHTS

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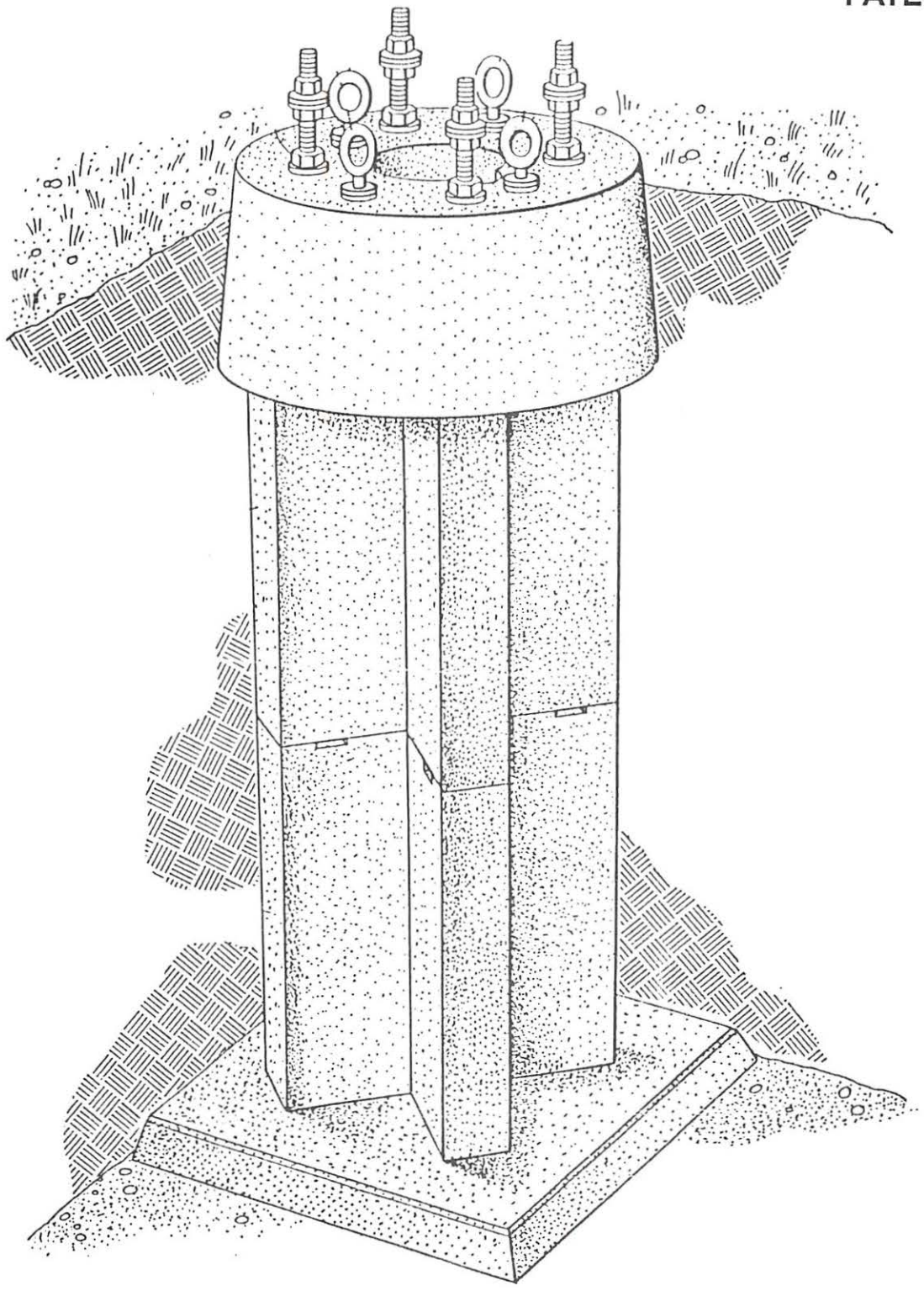

DPS - 2A

FOR: GATEARM & WAYSIDE SIGNAL

DIXIE PRECAST, INC.
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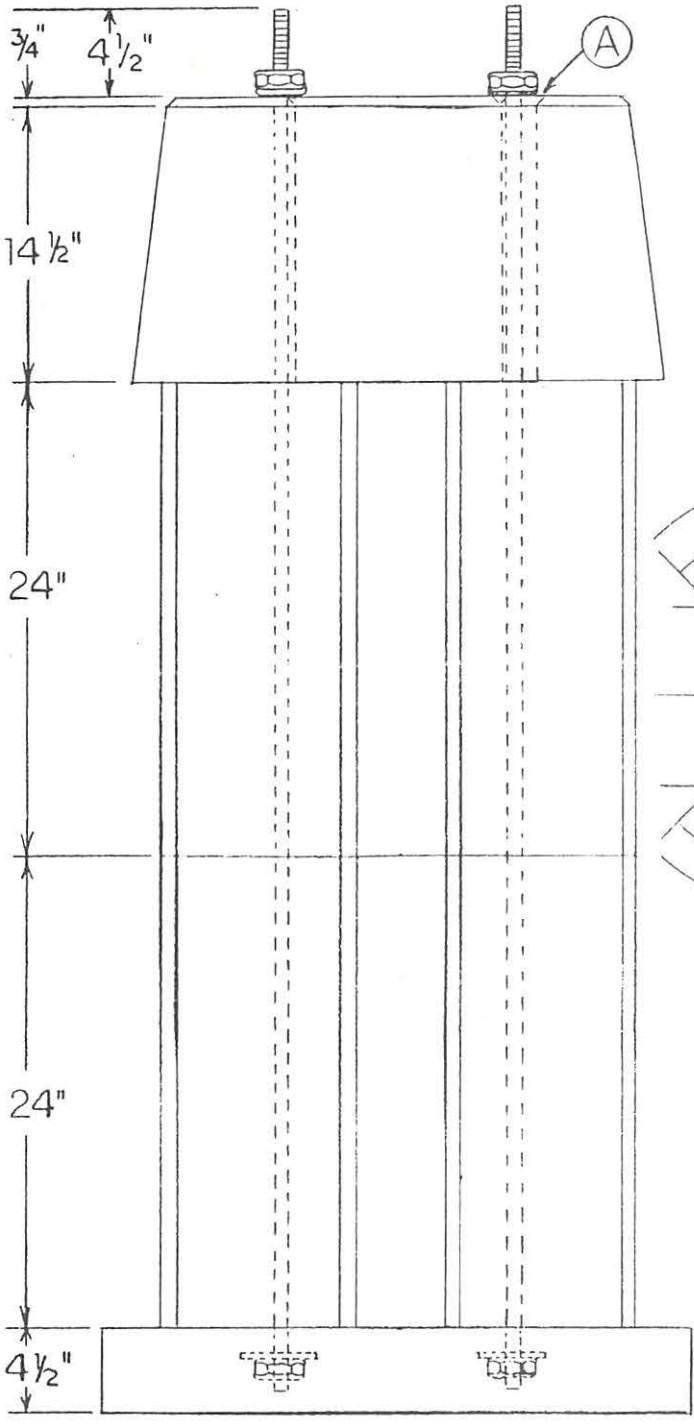
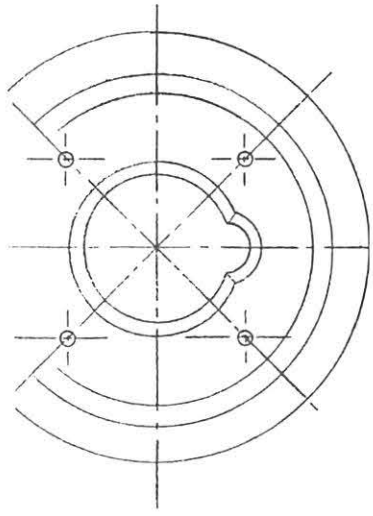


SIZE - WEIGHT
4'-6" @ 1650#
5'-6" @ 1900#
6'-6" @ 2150#
Ship Assembled
Bolt Pattern:
11-11/16" X 11-11/16"



DETAIL "A"

DPS - 2A

FOR: GATEARM & WAYSIDE SIGNAL

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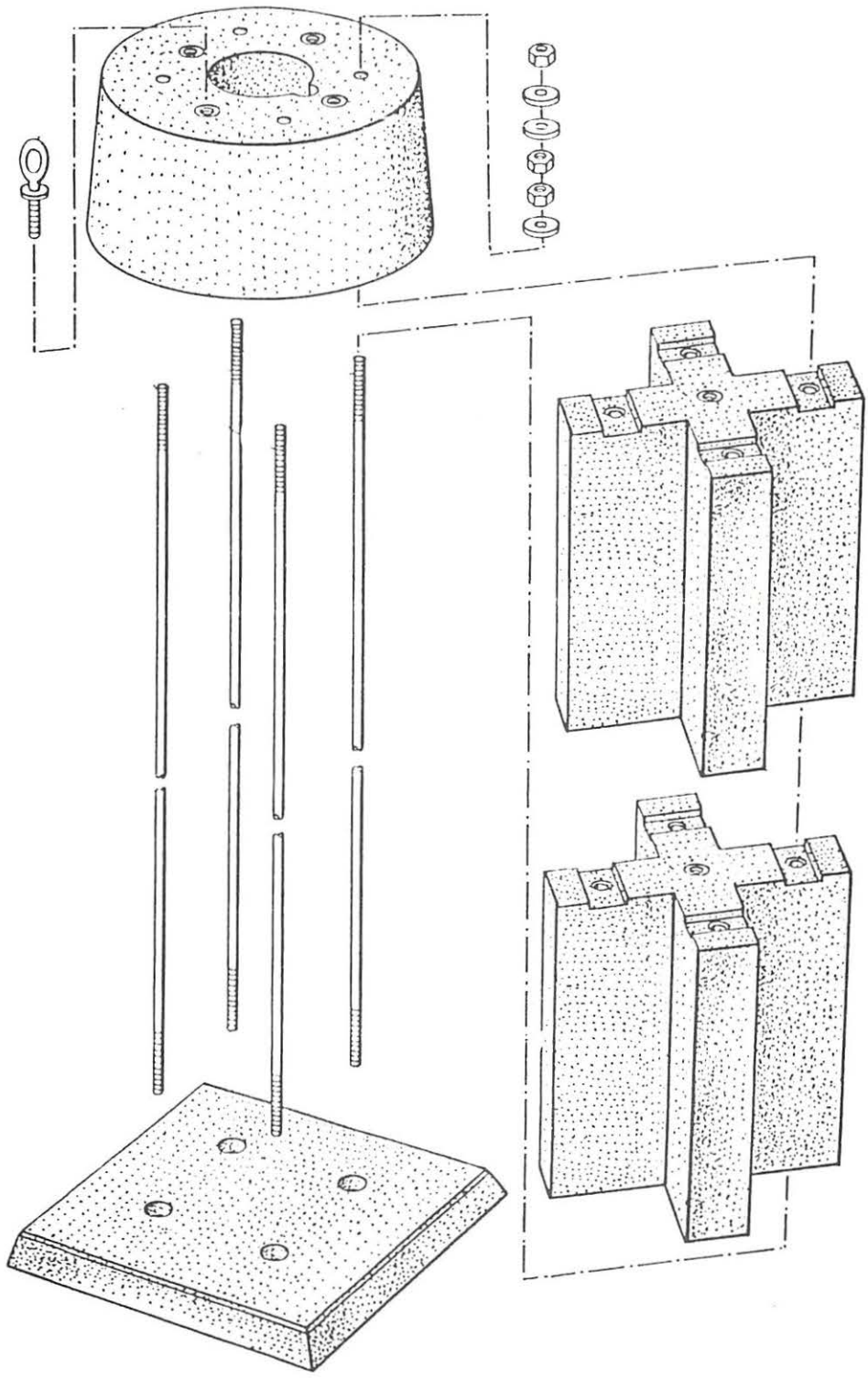
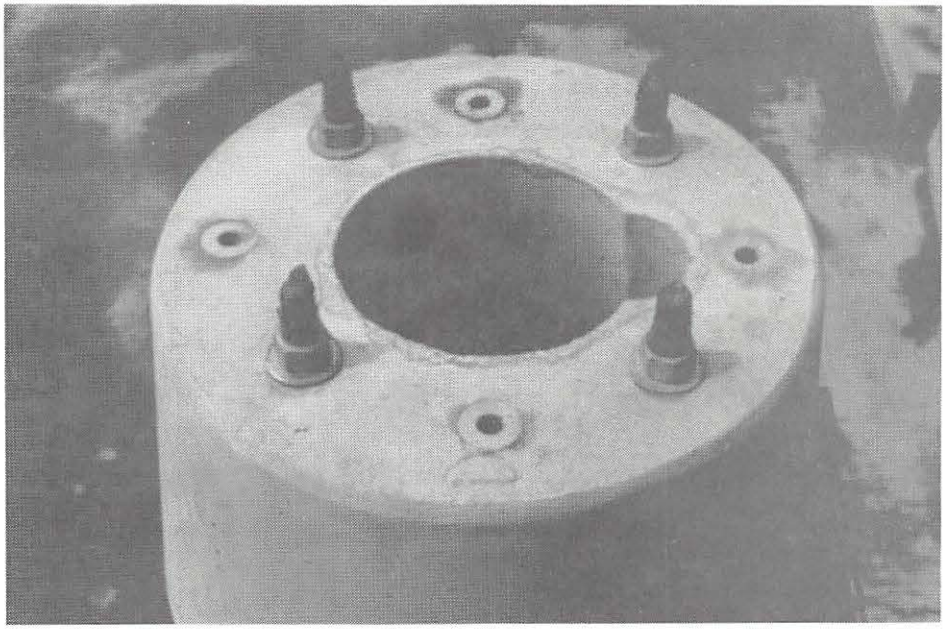
9-96

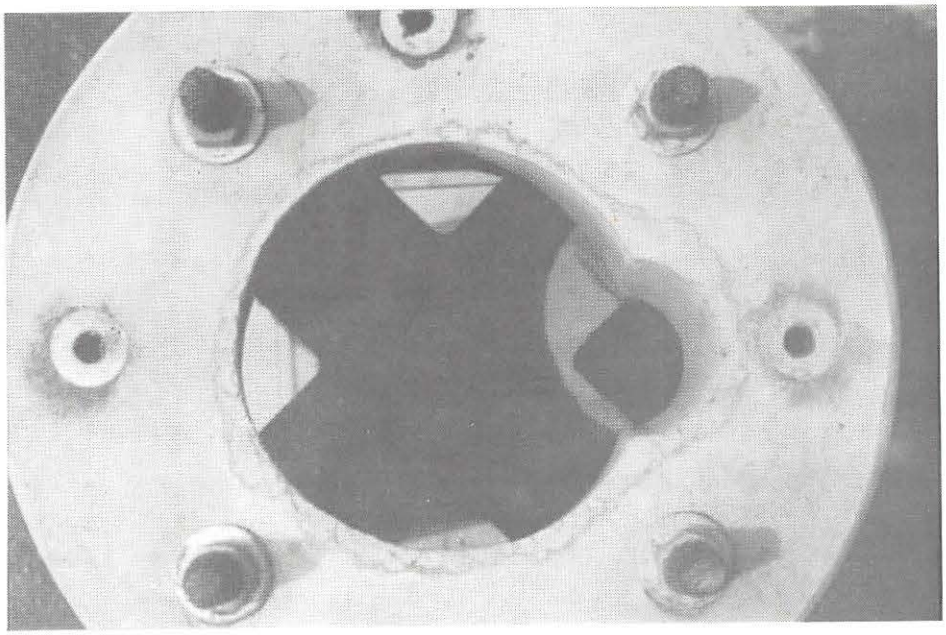
PATENTED



DPS - 2A

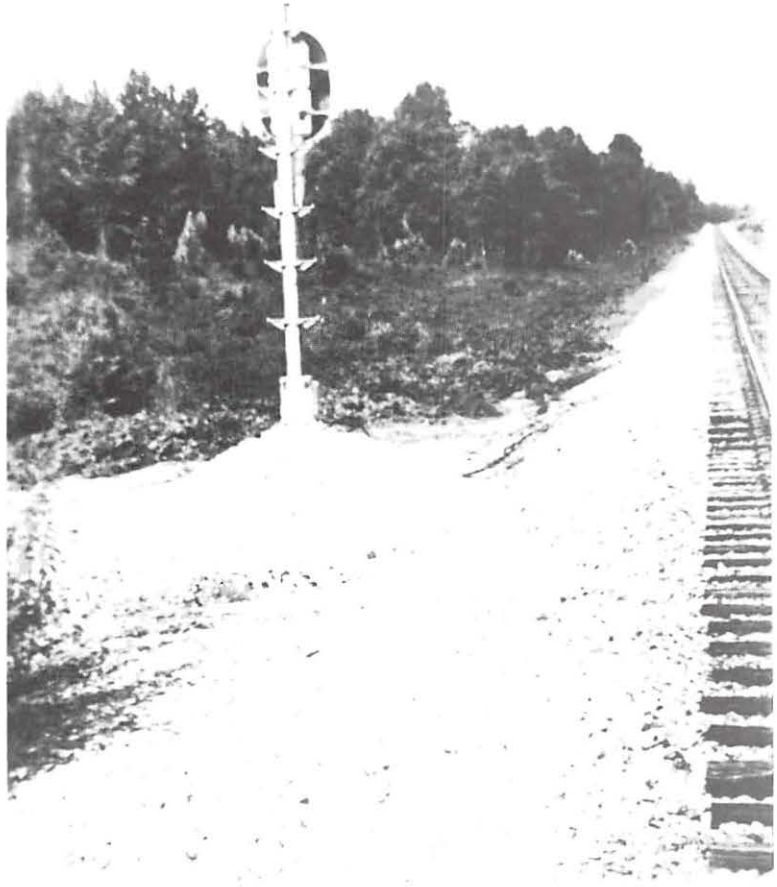
FOR: GATEARM & WAYSIDE SIGNAL

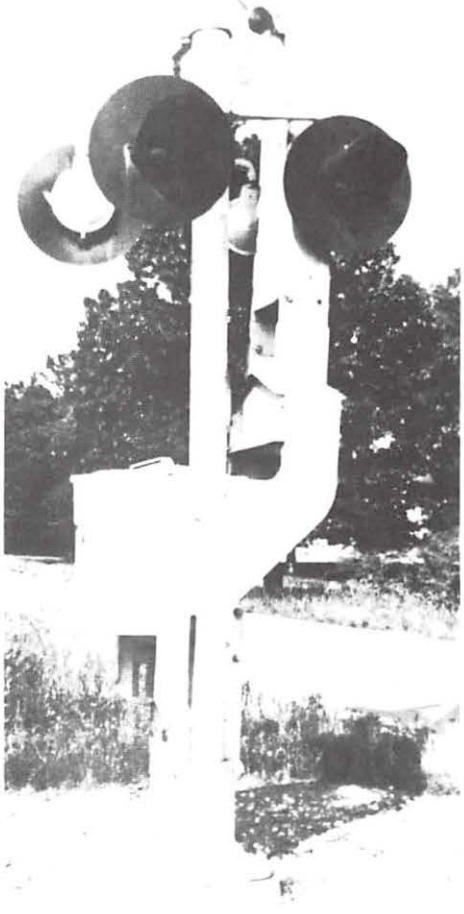




New DPS-2 top

DPS-2A
Installed





DPS-2A
Installed

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2950 ANGELETTE DRIVE, AUSTELL, GEORGIA 30001
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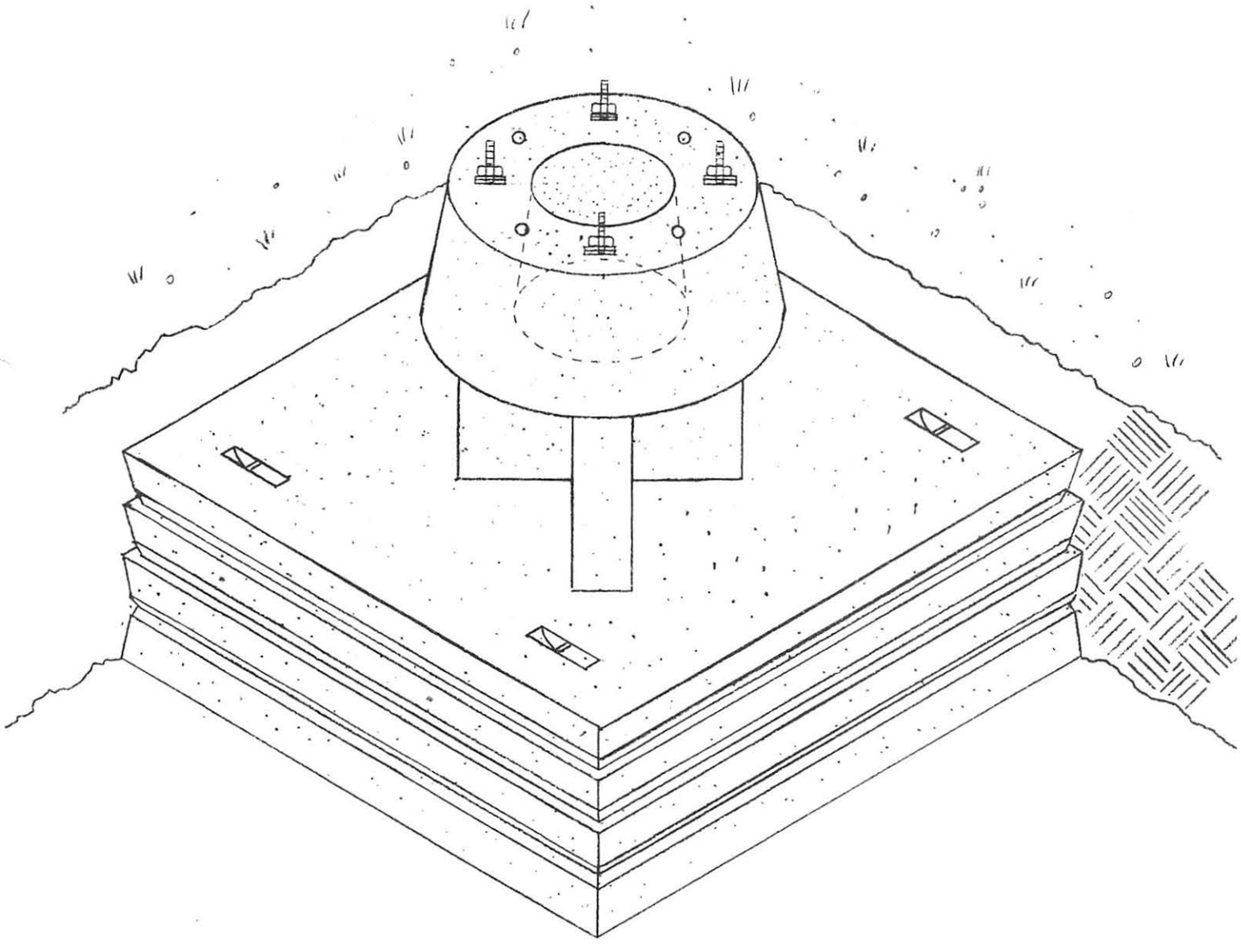
9-96

PATENTED

TOTAL WEIGHT: 16000#



DP - 4B

FOR: SINGLE MAST CANTILEVER

Tightening Leveling Nut

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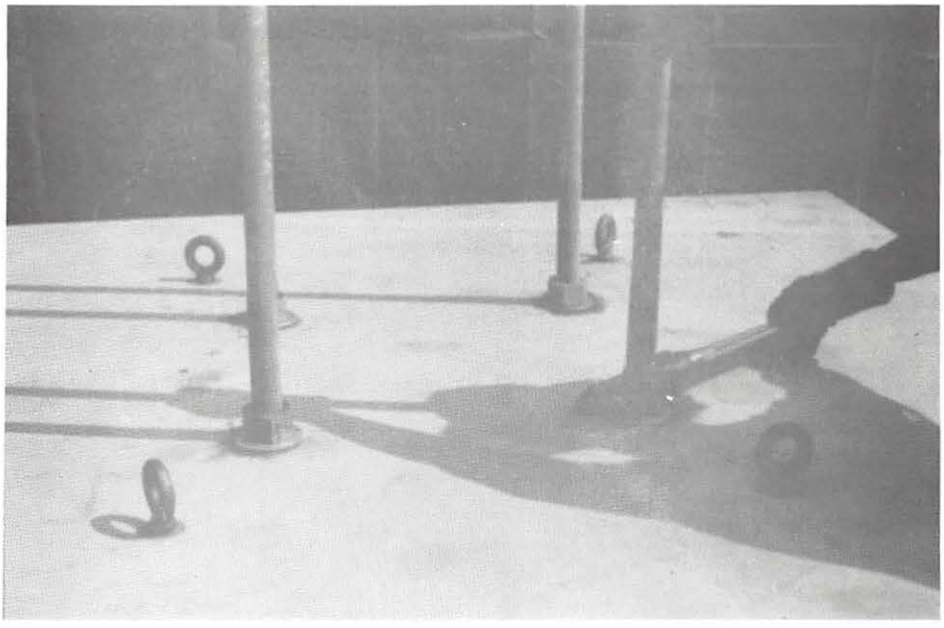
9-96

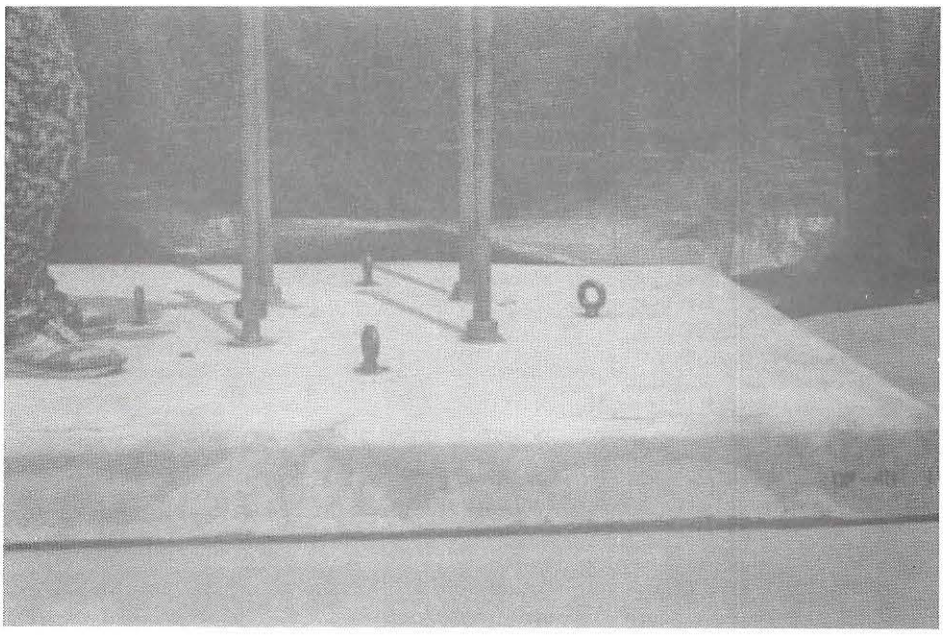
PATENTED

TOTAL WEIGHT: 16000#

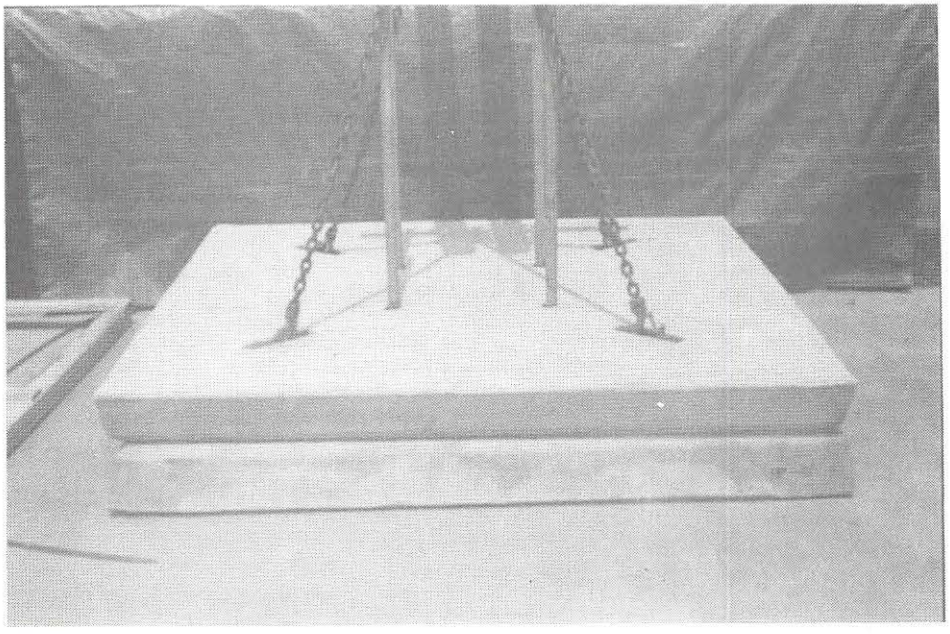
Leveling Nut #1 Slab



Tightening Leveling Nut



#1 Slab with nuts installed



#2 Slab in place

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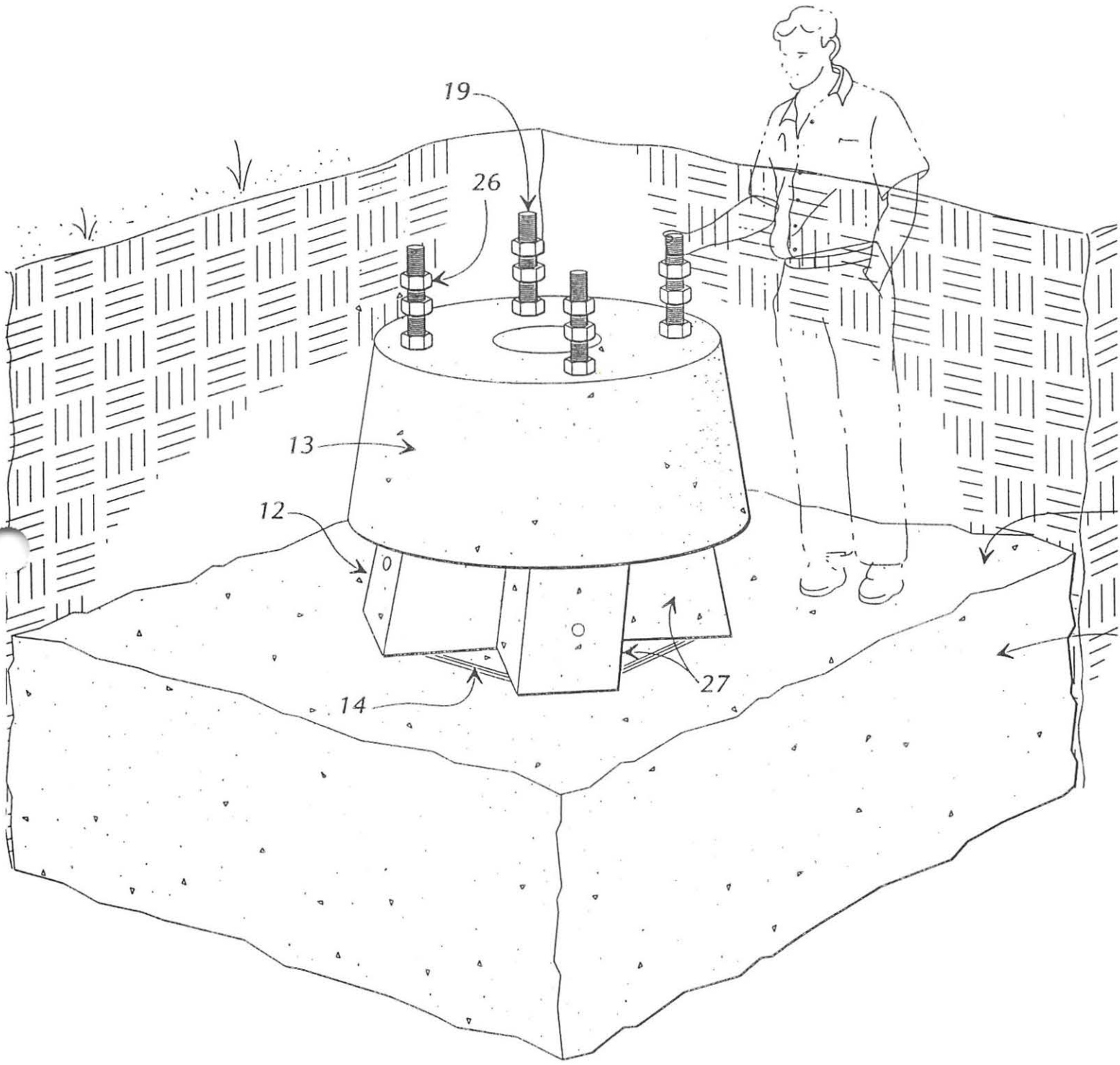
S-96

PATENTED



4B-UF

POUR IN PLACE FOR: SINGLE MAST CANTILEVER

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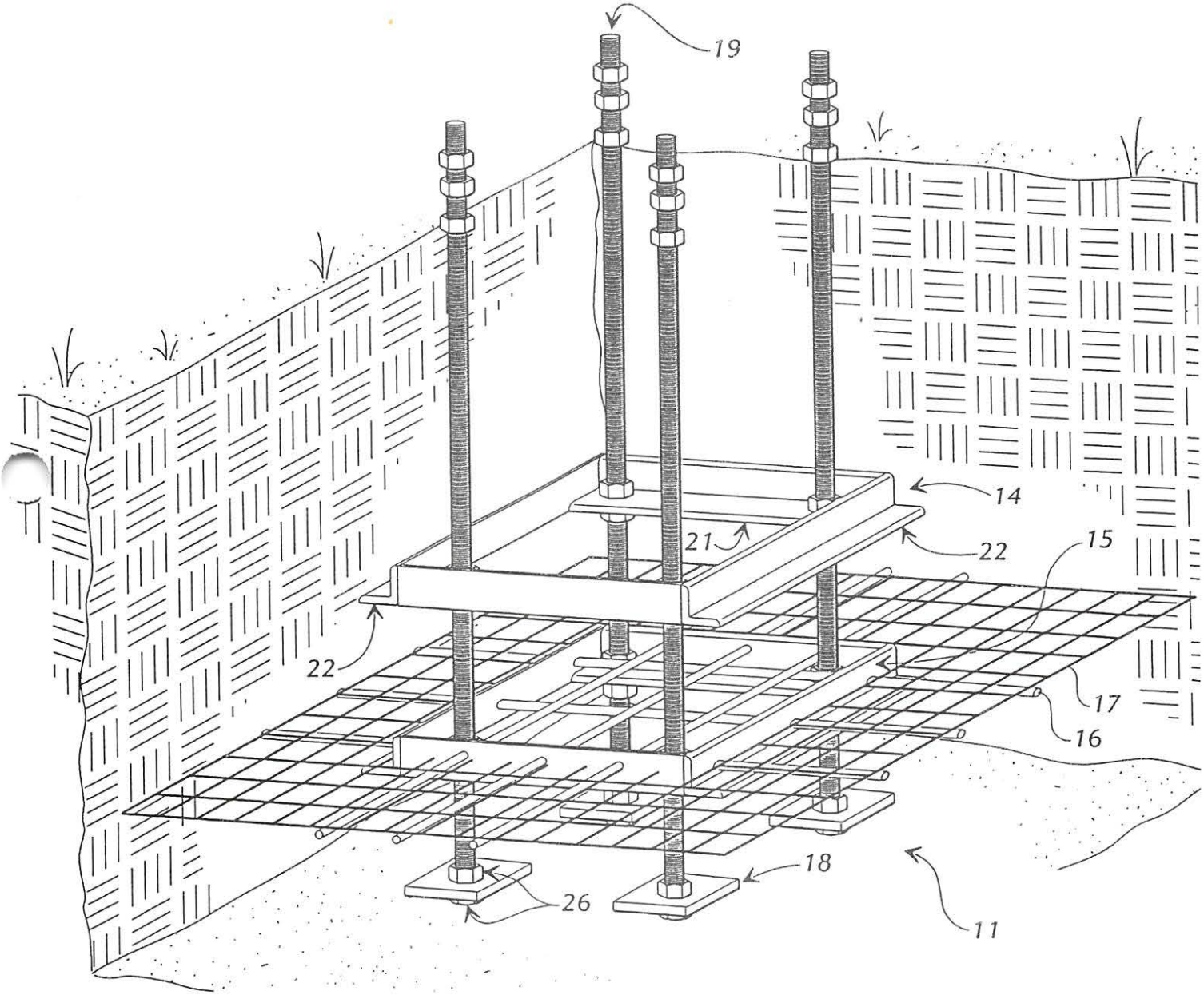
9-96

PATENTED



4B-UF

POUR IN PLACE FOR: SINGLE MAST CANTILEVER

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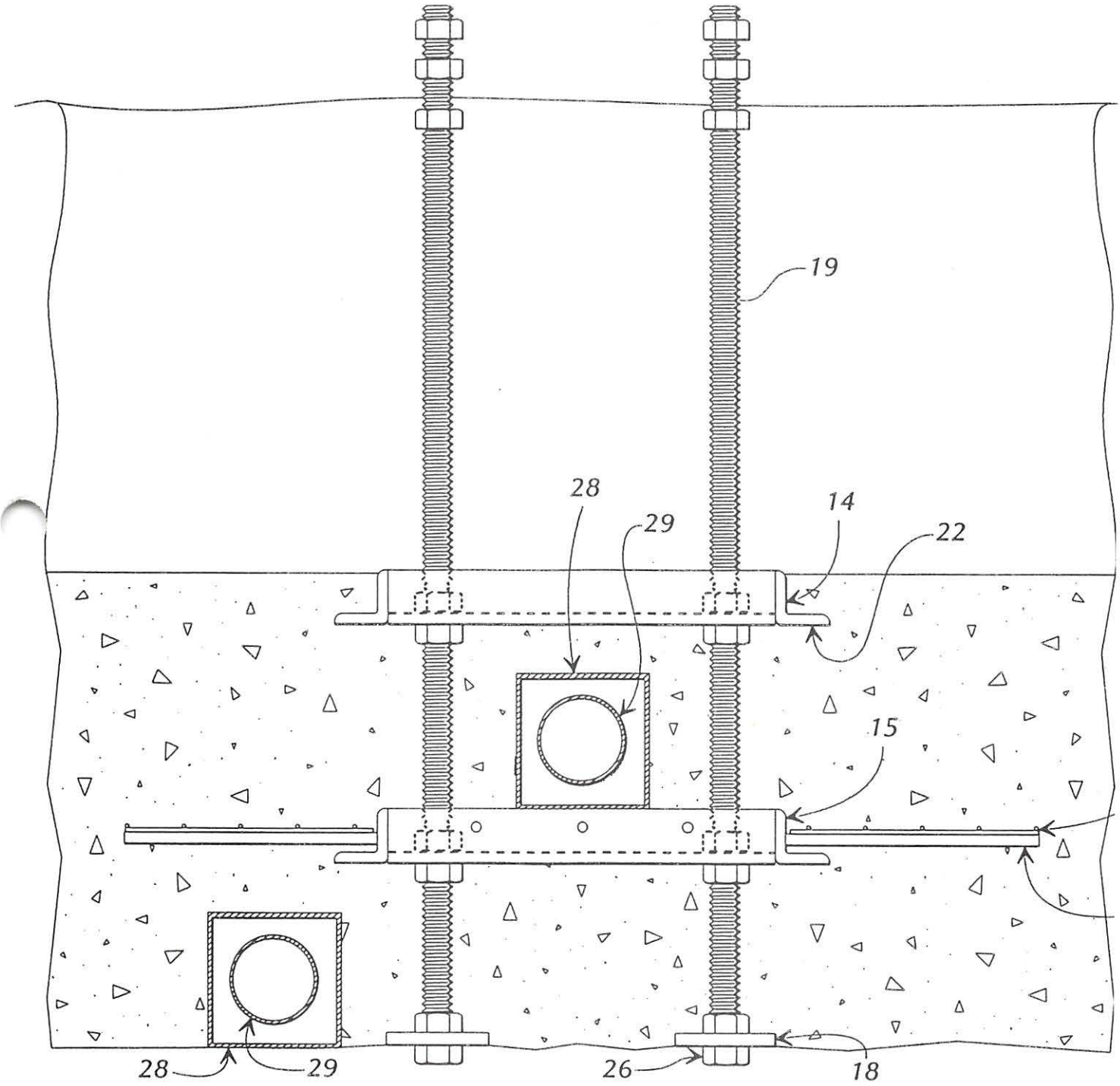
9-96

PATENTED



4B-UF

POUR IN PLACE FOR: SINGLE MAST CANTILEVER

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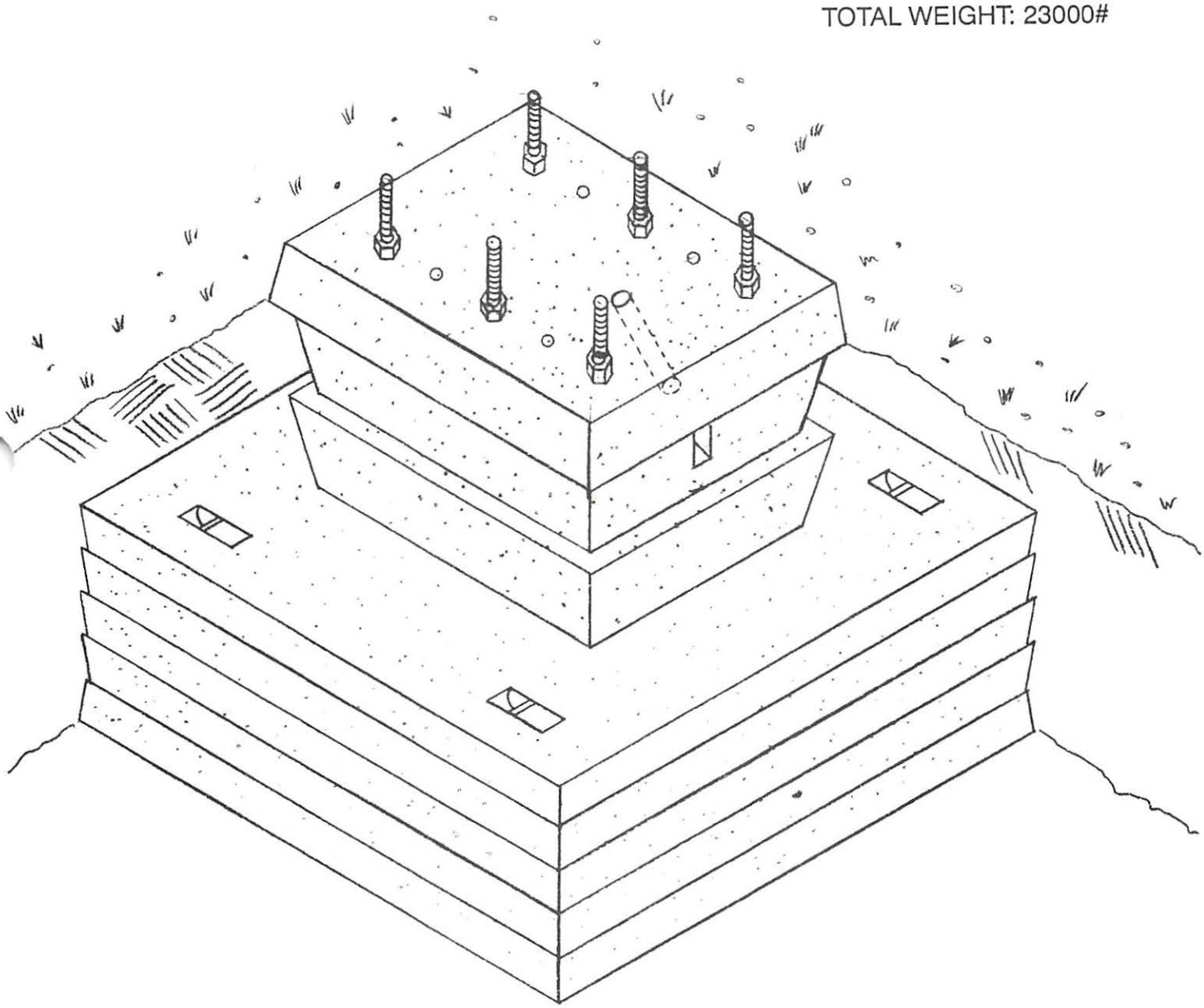
9-96

PATENTED

TOTAL WEIGHT: 23000#



DP - 6B

FOR: DOUBLE MAST 6-BOLT CANTILEVER

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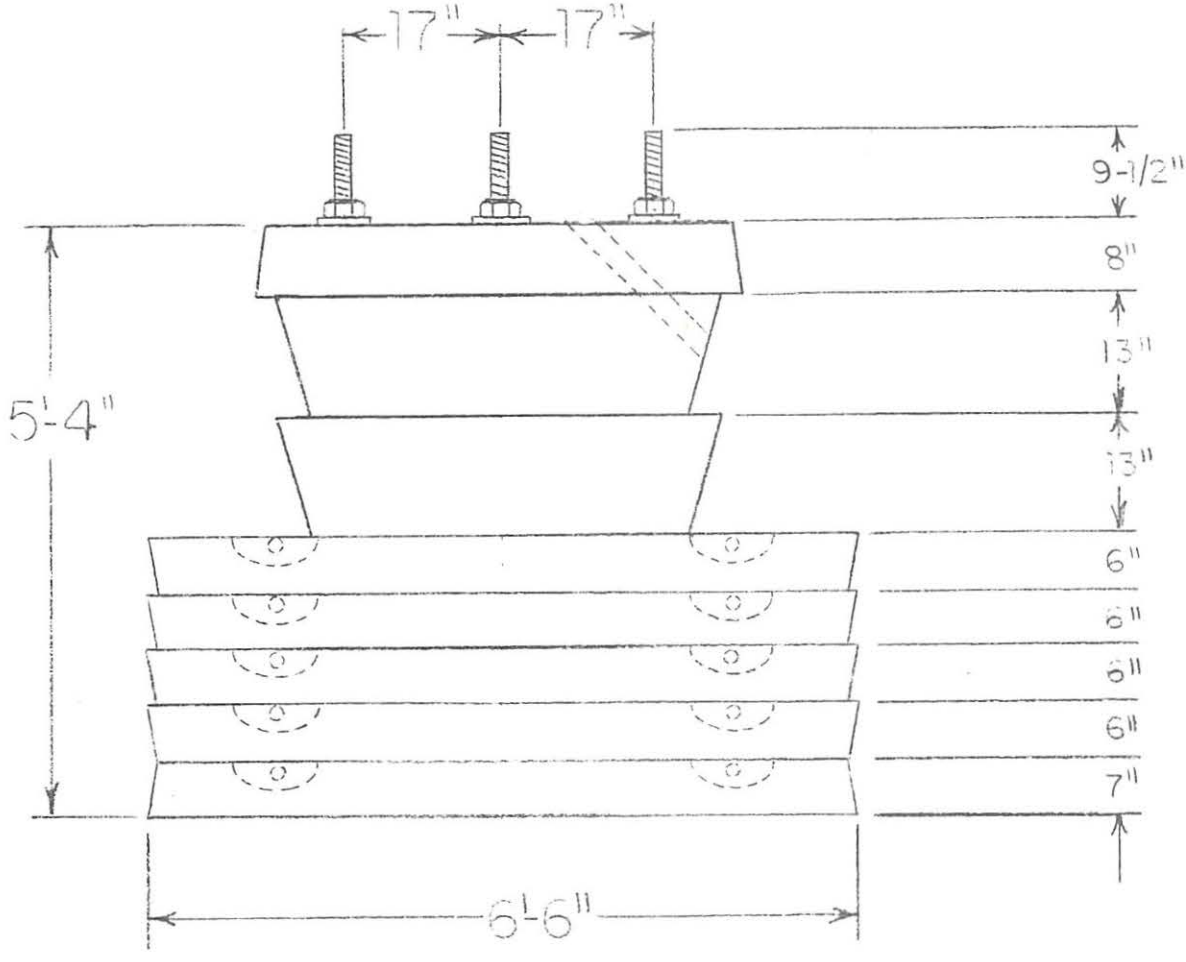
9-96

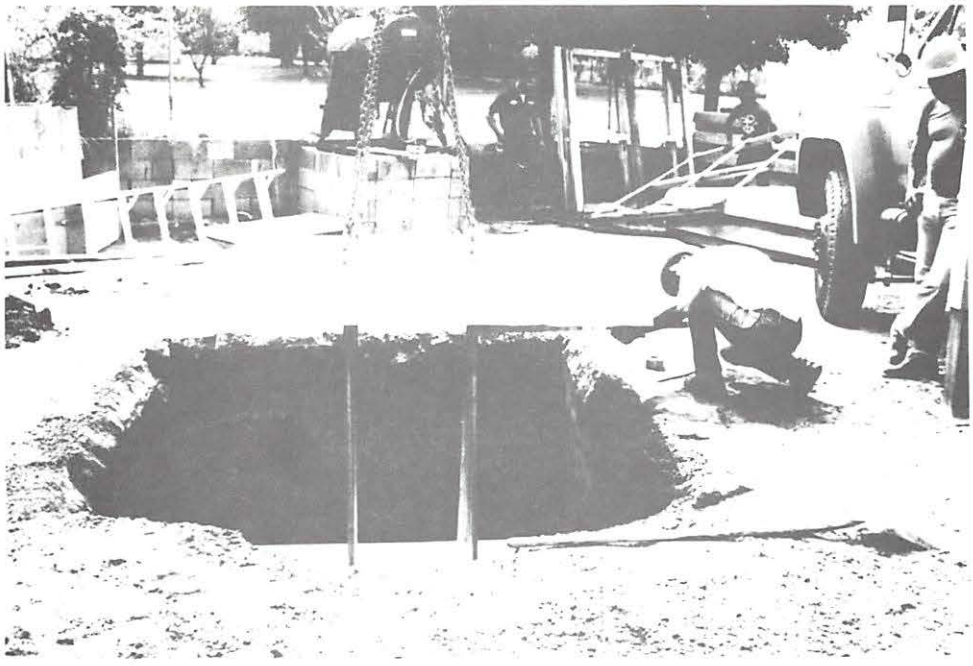
PATENTED

TOTAL WEIGHT: 23000#
Bolt Pattern:
17" x 17" x 23"

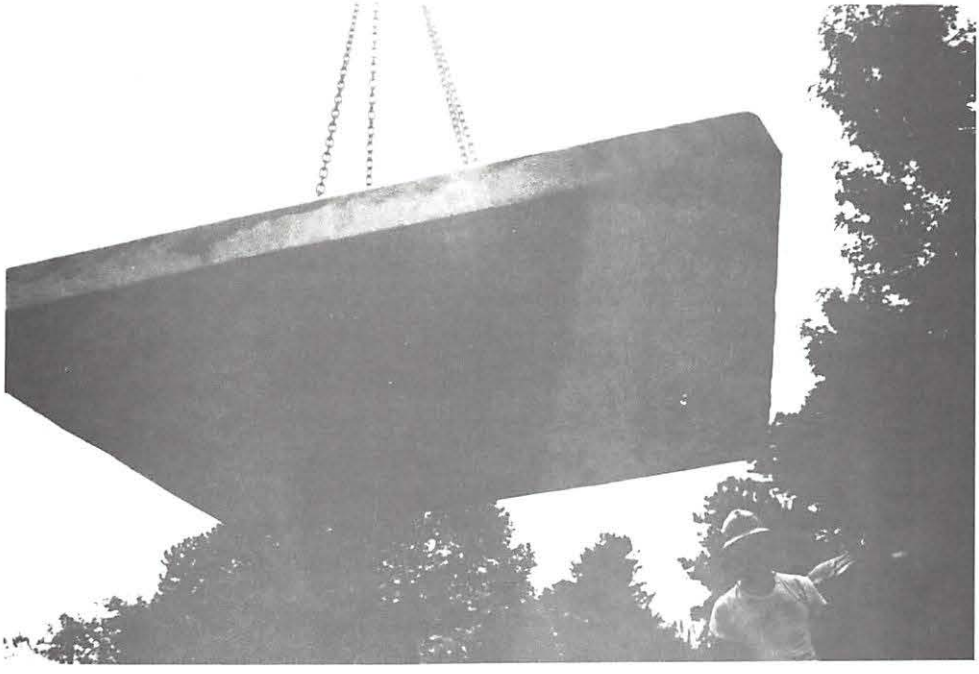


DP - 6B

FOR: DOUBLE MAST 6-BOLT CANTILEVER

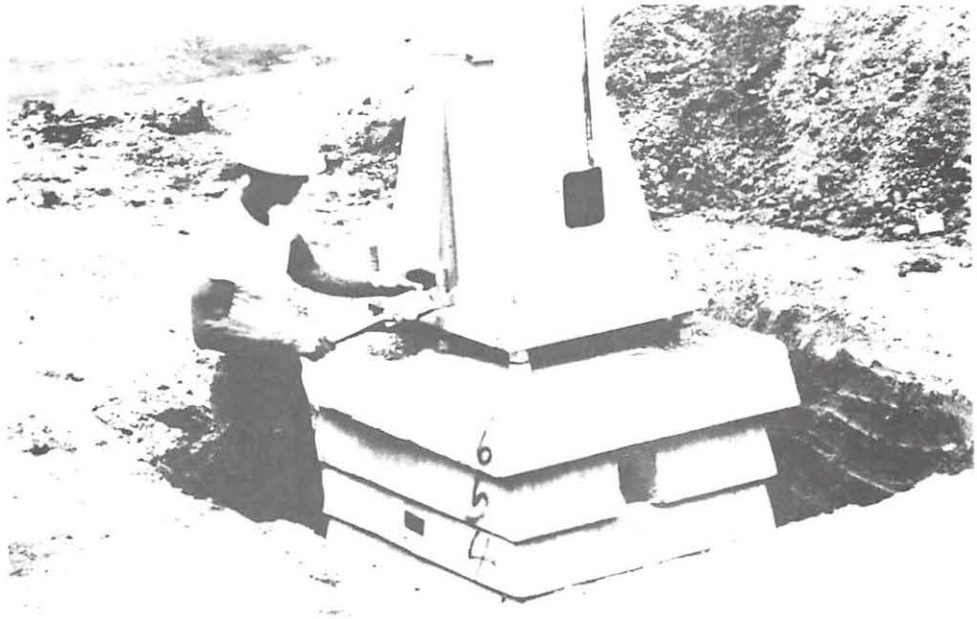


DP-6B
Typical installation of 5' - 8"
Base slab being installed with bolts



DP-6B
#2 slab showing larger tapered holes for ease of installation

DP-6B
Additional units being lowered into place.
Note: No need for personnel to be in hole with concrete



DP-6B
Unit complete & level.
Ready for backfill

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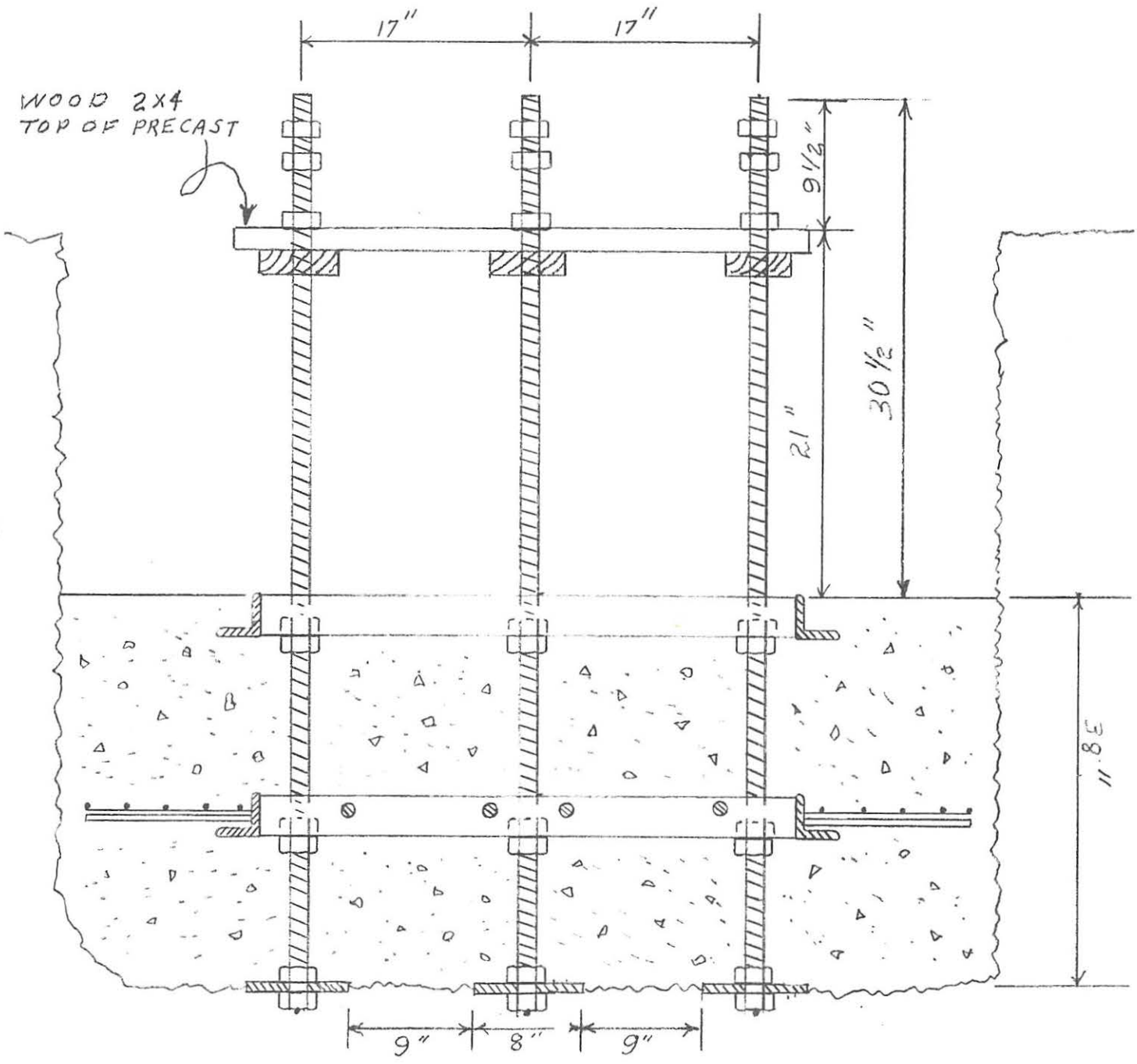
9-96

PATENTED



6B - UF

POUR IN PLACE FOR: DOUBLE MAST 6-BOLT CANTILEVER

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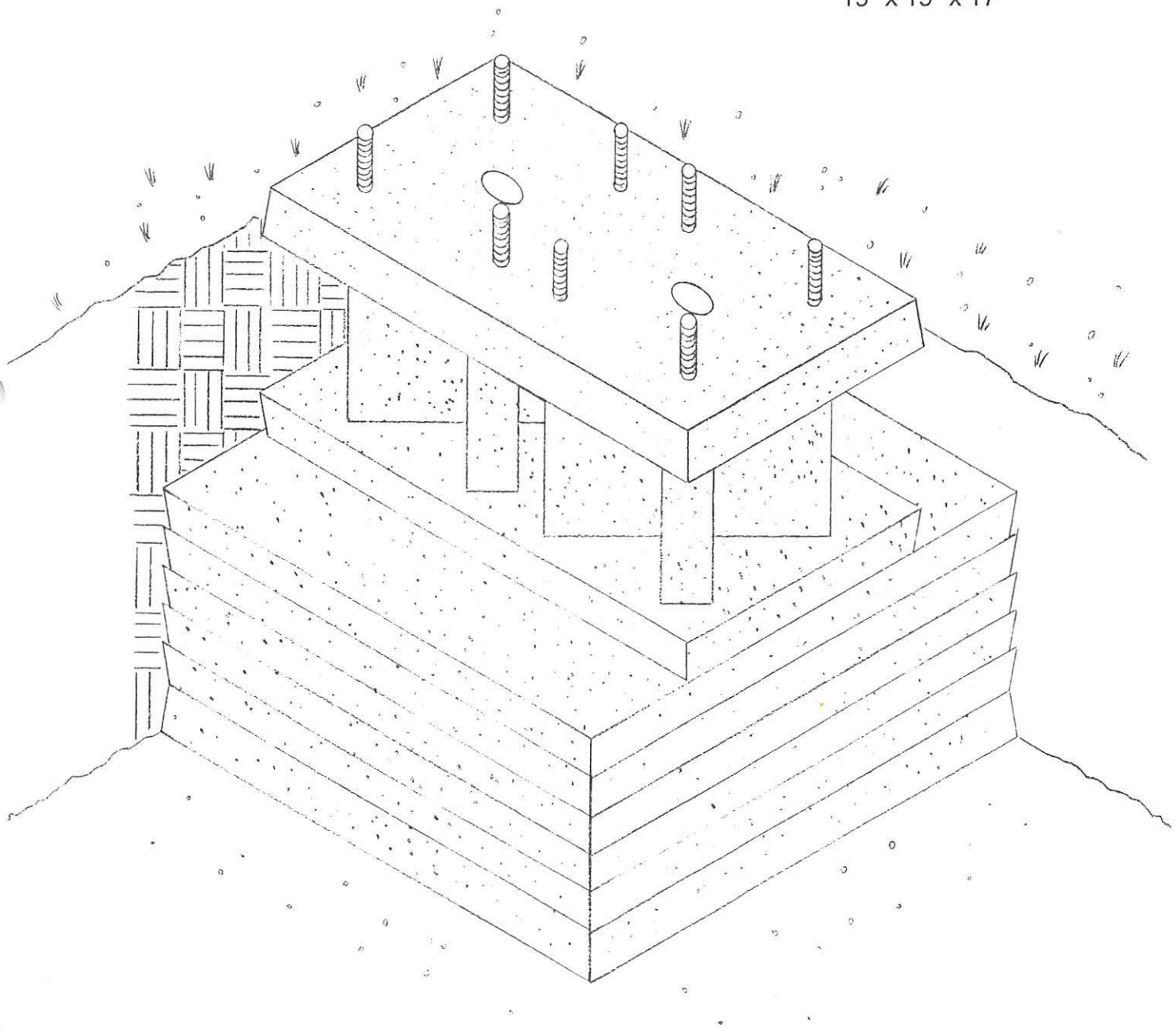
9-96

PATENTED

TOTAL WEIGHT: 23000#
Bolt Pattern:
19" x 19" x 17"



DP - 8B

FOR: DOUBLE MAST 8-BOLT CANTILEVER

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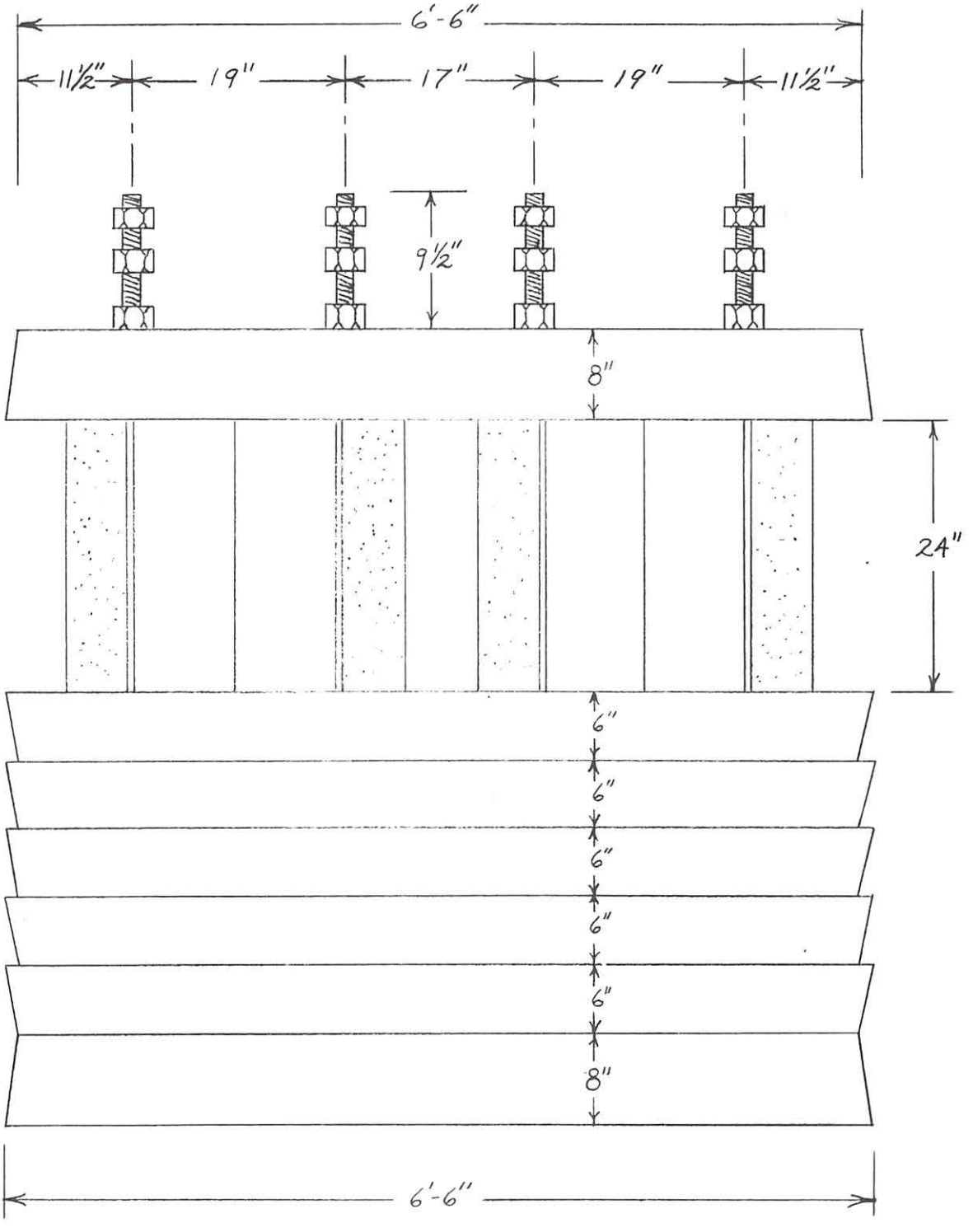
9-96

PATENTED



TOTAL WEIGHT: 23000#

DP - 8B

FOR: DOUBLE MAST 8-BOLT CANTILEVER

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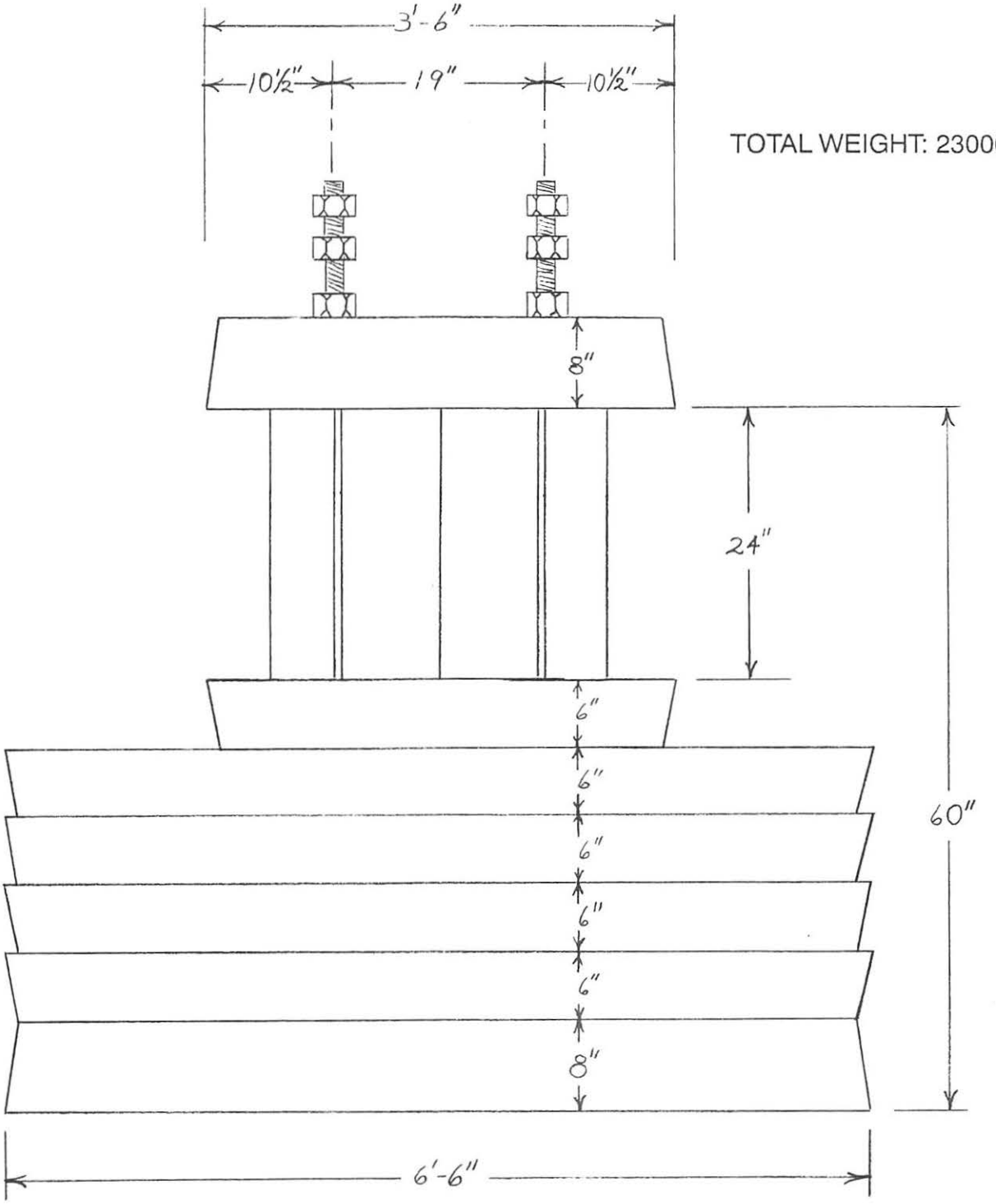
9-96

PATENTED



TOTAL WEIGHT: 23000#

DP - 8B

FOR: DOUBLE MAST 8-BOLT CANTILEVER

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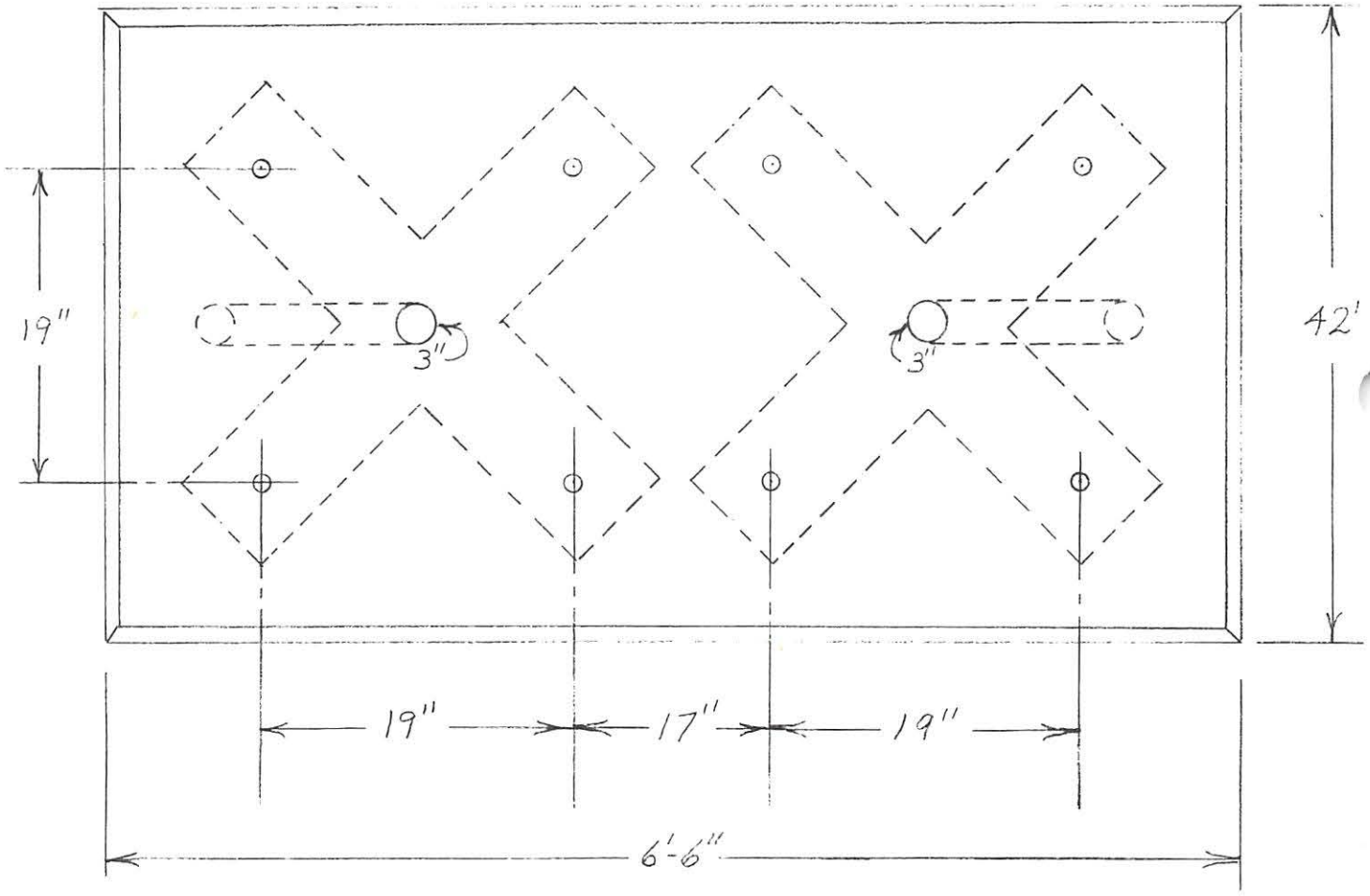
9-96

PATENTED



DP - 8B

BOLT PATTERN

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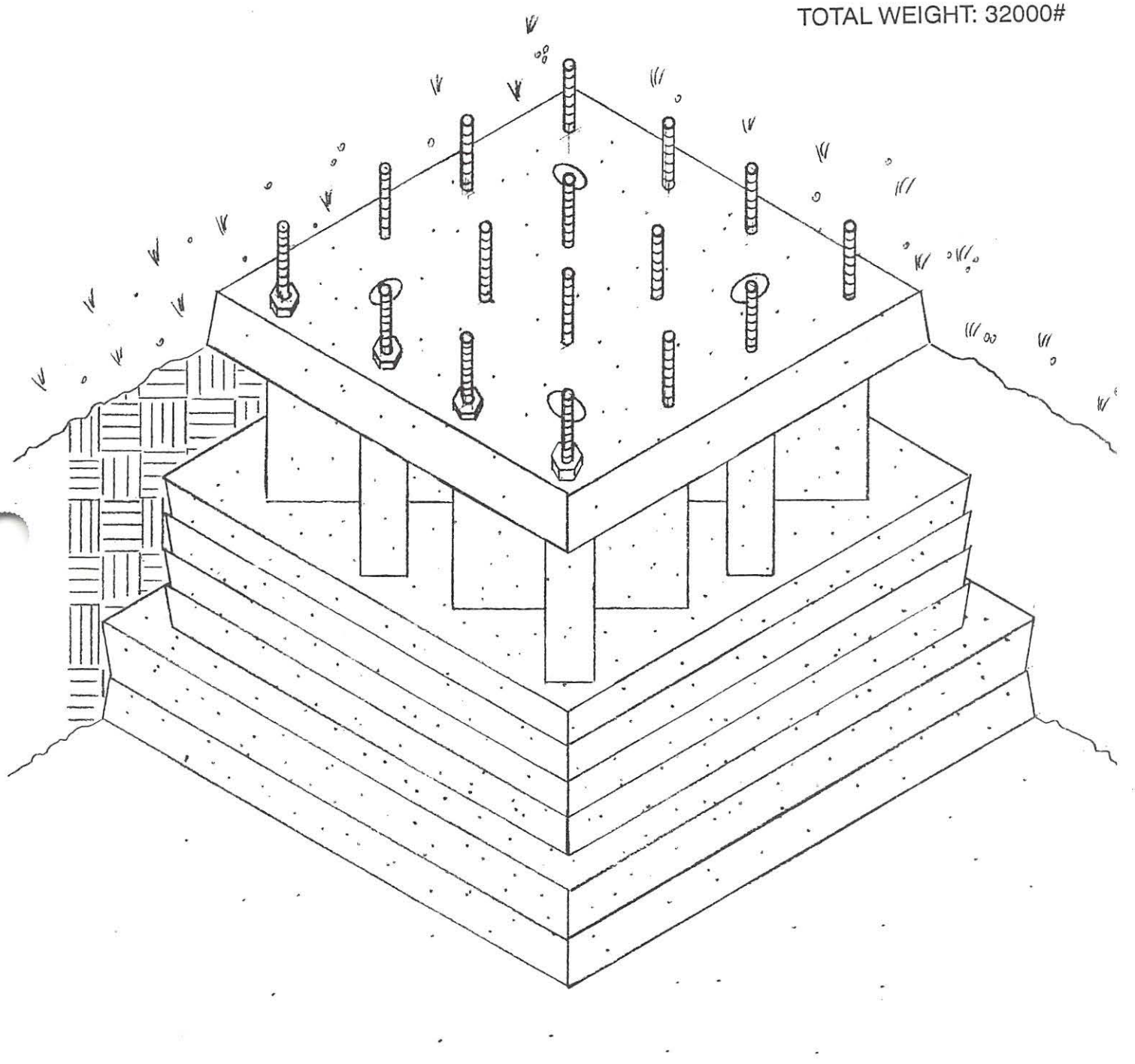
9-96

PATENTED

TOTAL WEIGHT: 32000#



DP - 16 - B

FOR: 4-MAST WAYSIDE CANTILEVER

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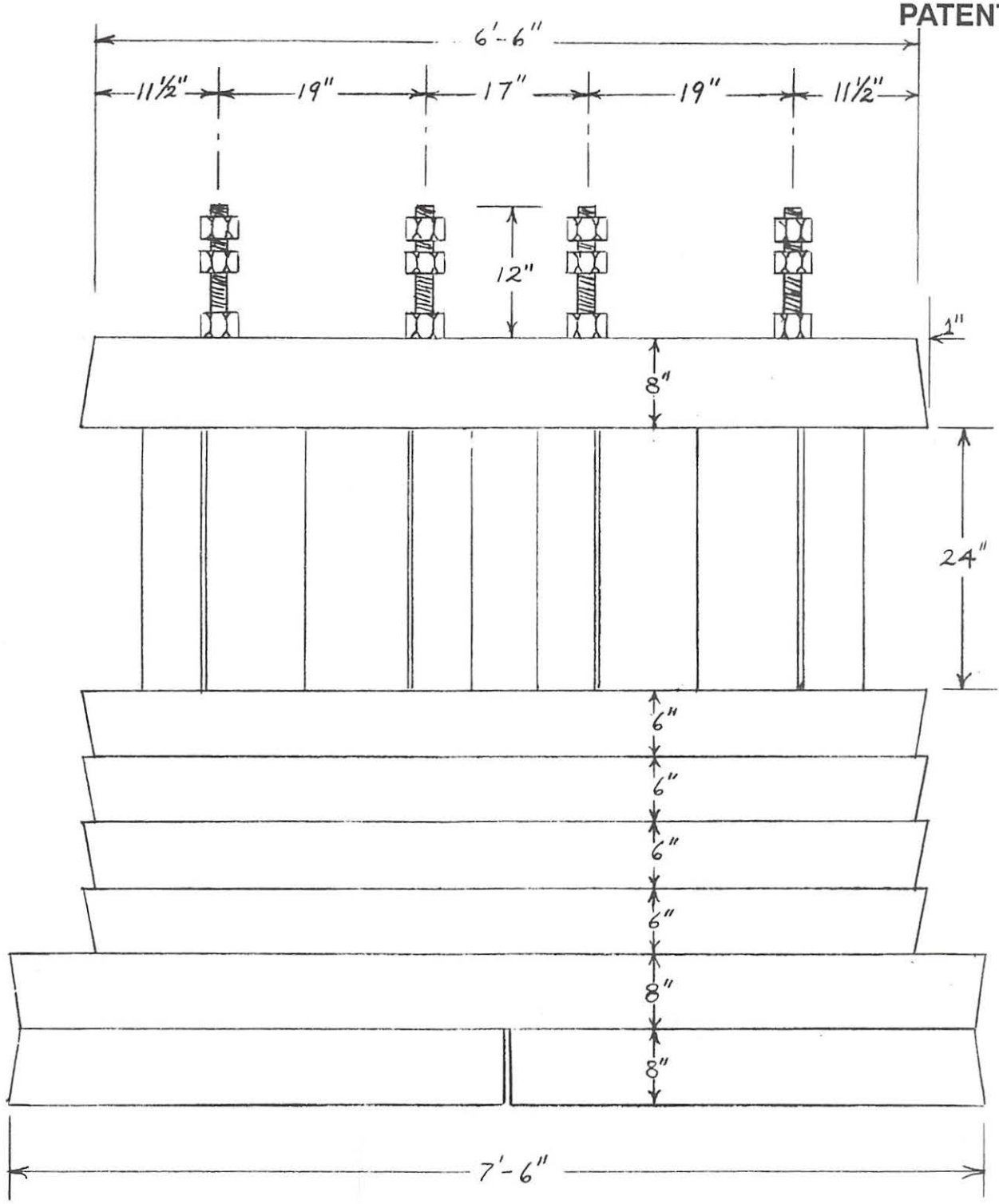
9-96

PATENTED



TOTAL WEIGHT: 32000#

DP - 16 - B

FOR: 4-MAST WAYSIDE CANTILEVER 4'X3'

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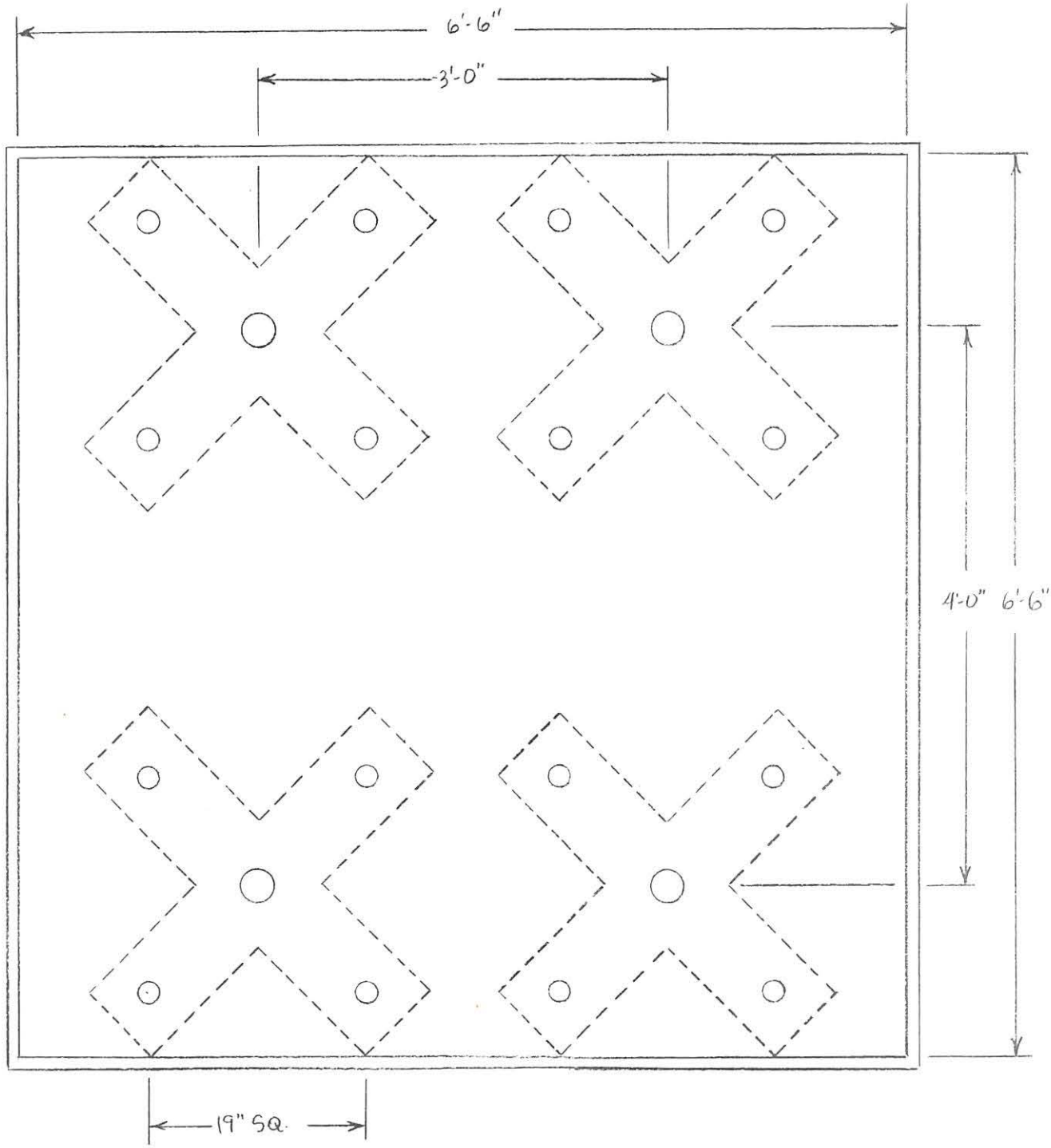
9-96

PATENTED

TOTAL WEIGHT: 32000#



DP - 16 - B

FOR: 4-MAST WAYSIDE CANTILEVER WITH 4' X 3' CANTERLEVER

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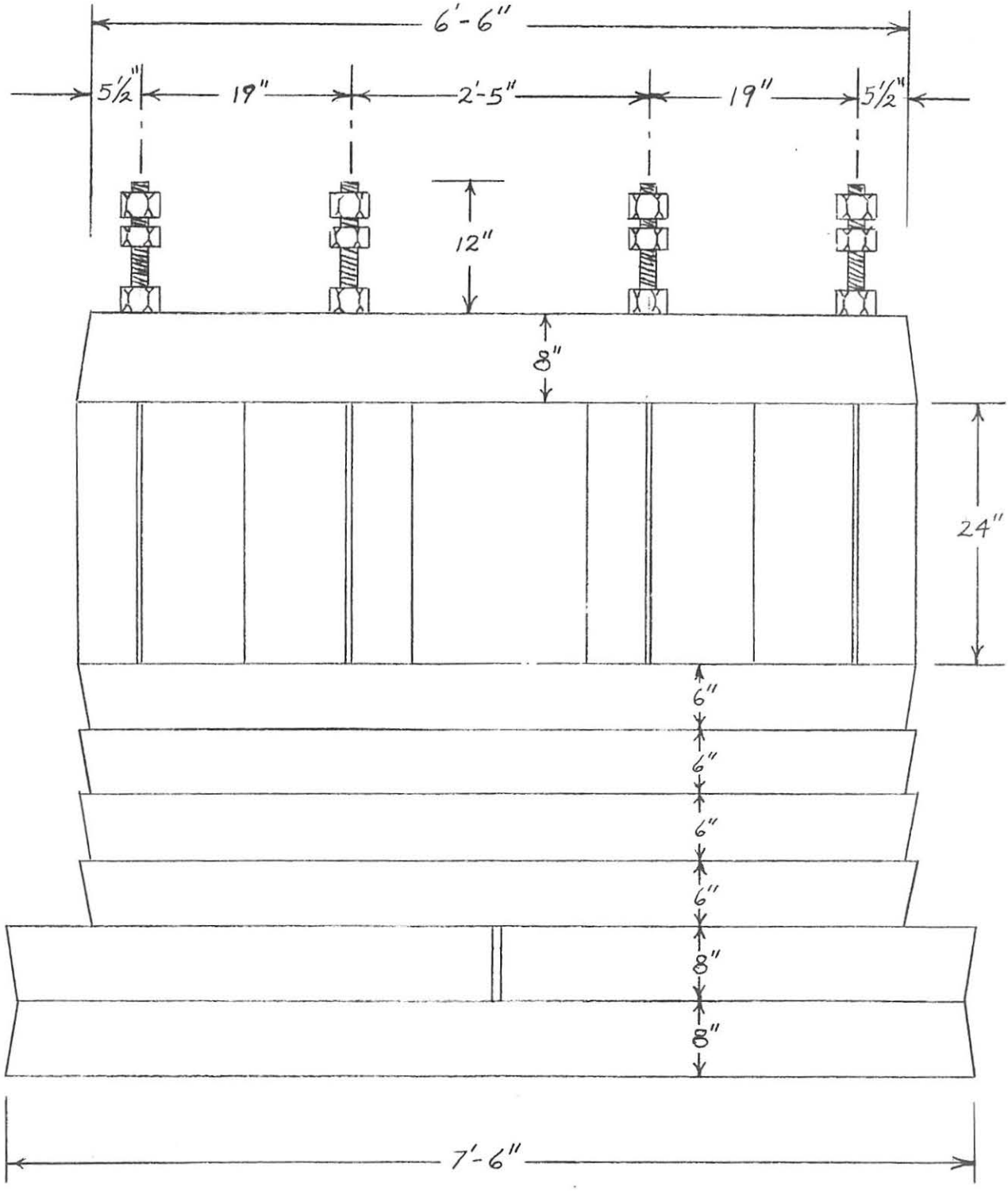
9-96

PATENTED



TOTAL WEIGHT: 32000#

DP - 16 - B

FOR: 4-MAST WAYSIDE CANTILEVER 4'X4'

DIXIE PRECAST, INC.
2950 ANGELETTE DRIVE, AUSTELL, GEORGIA 30001
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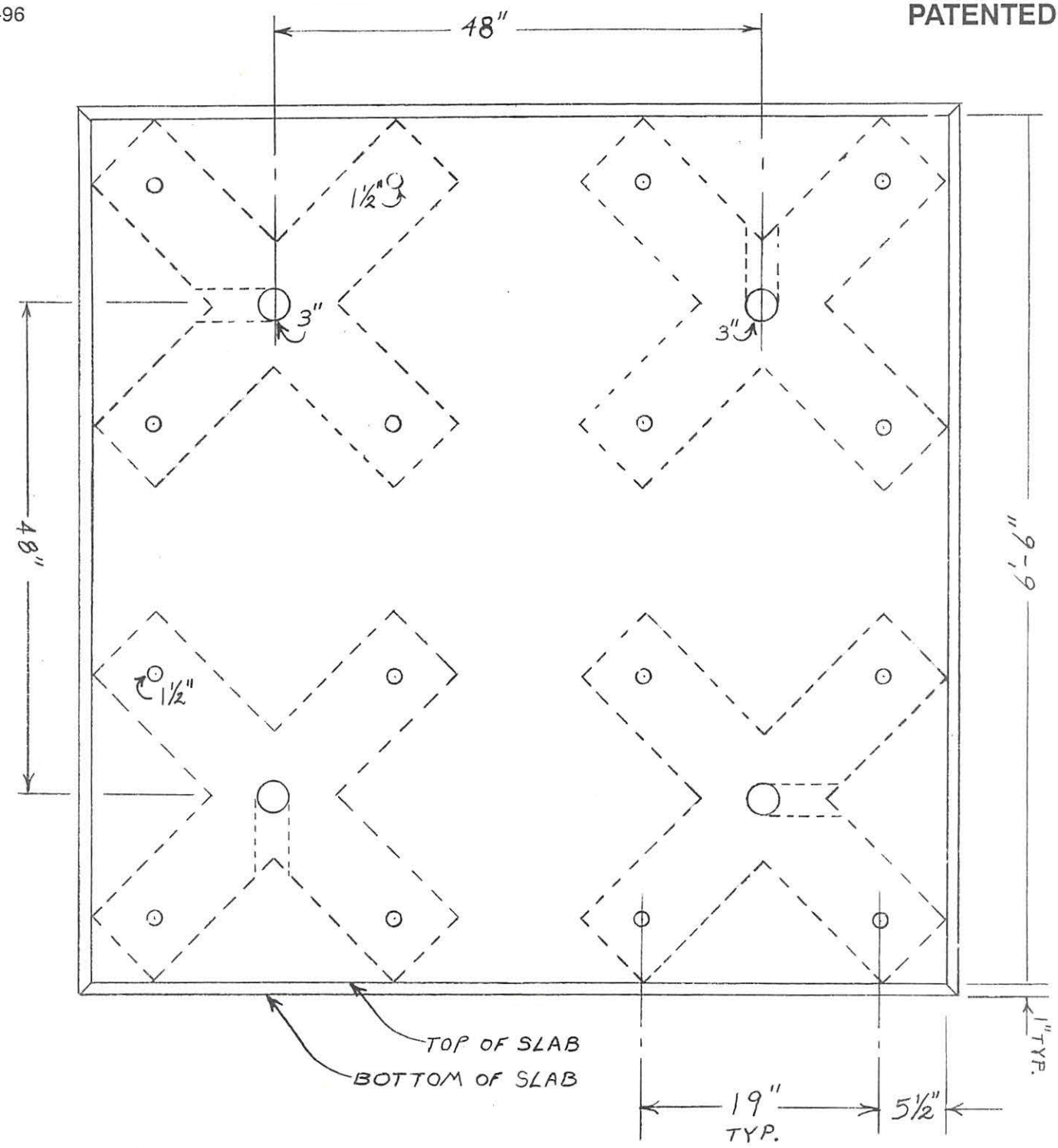
9-96

PATENTED



DP - 16 - B

FOR: 4'X4' MAST CENTER LINE

DIXIE PRECAST, INC.
2950 ANGELETTE DRIVE, AUSTELL, GEORGIA 30001
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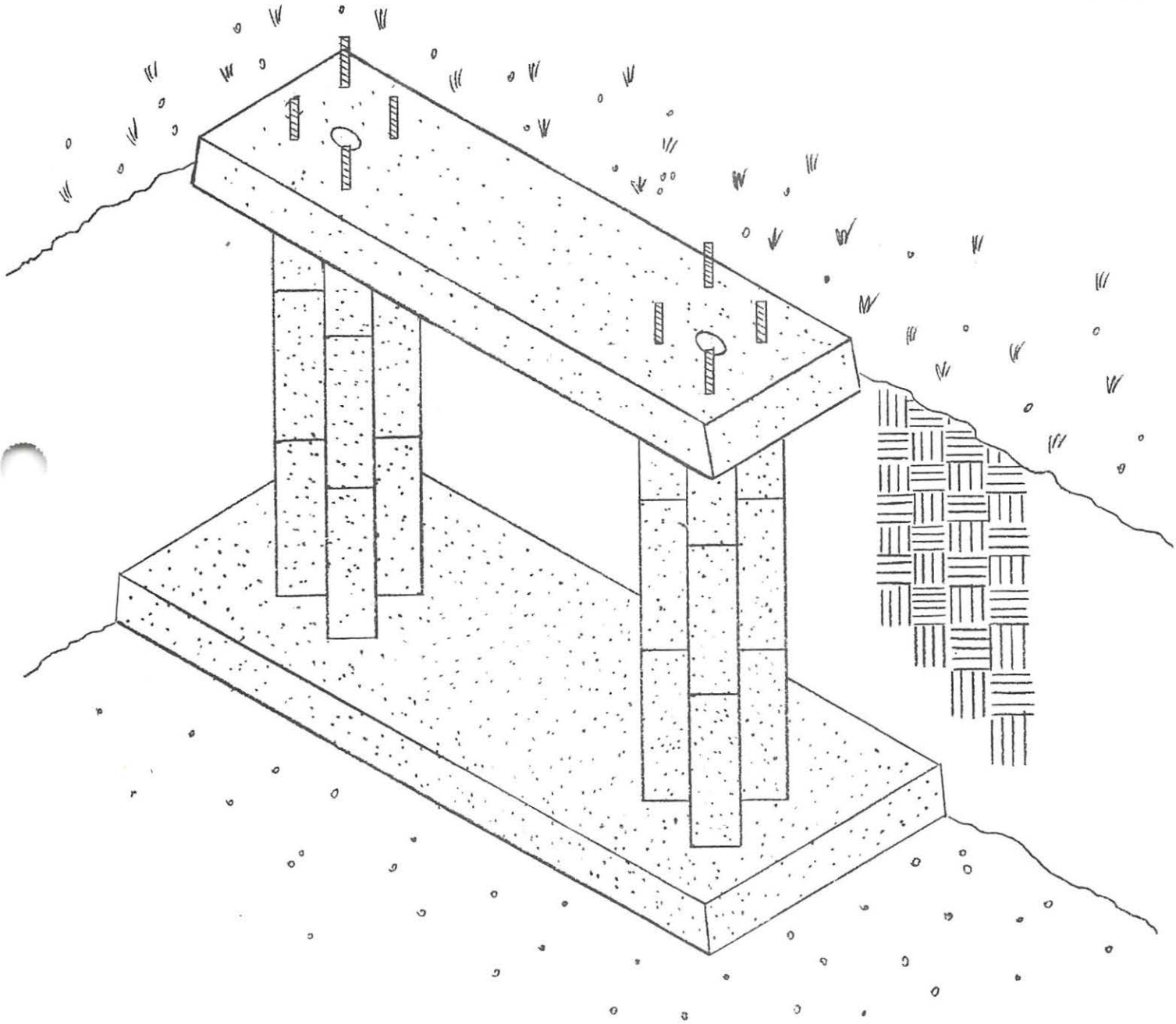
9-96

PATENTED

TOTAL WEIGHT: 10700#



DPS - 16 - X

FOR: SIGNAL BRIDGE

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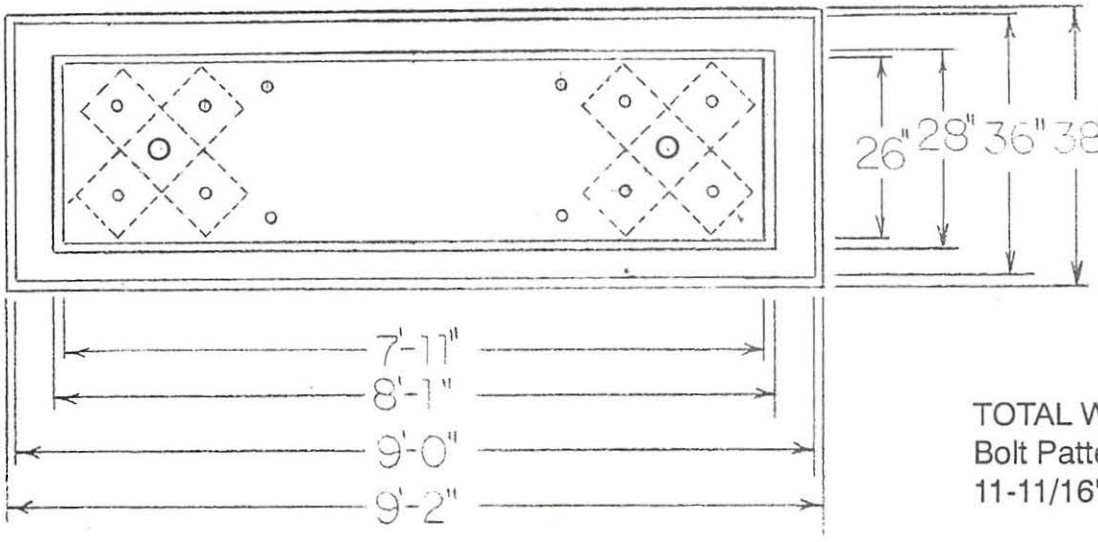
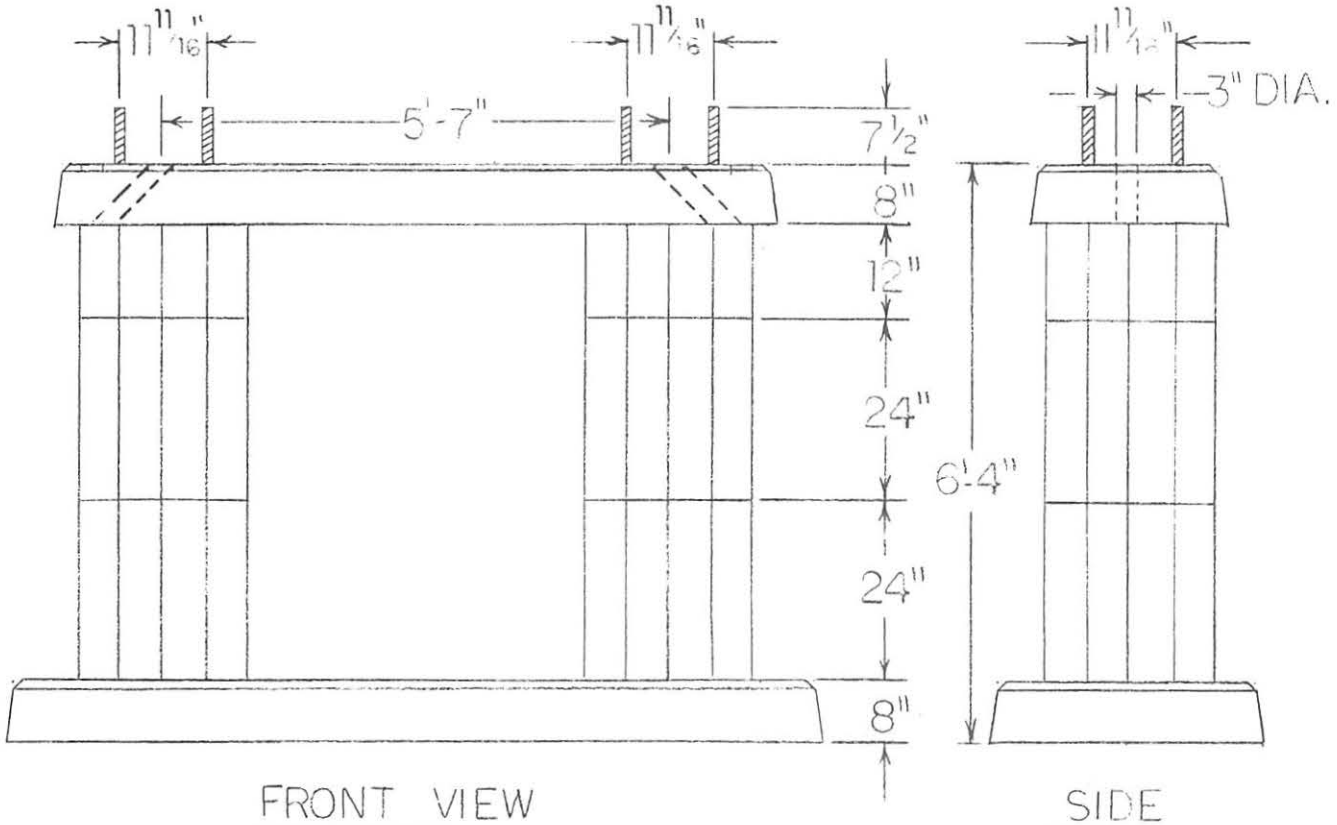
9-96

PATENTED

TOP



TOTAL WEIGHT: 10700#
Bolt Pattern:
11-11/16" x 11-11/16"

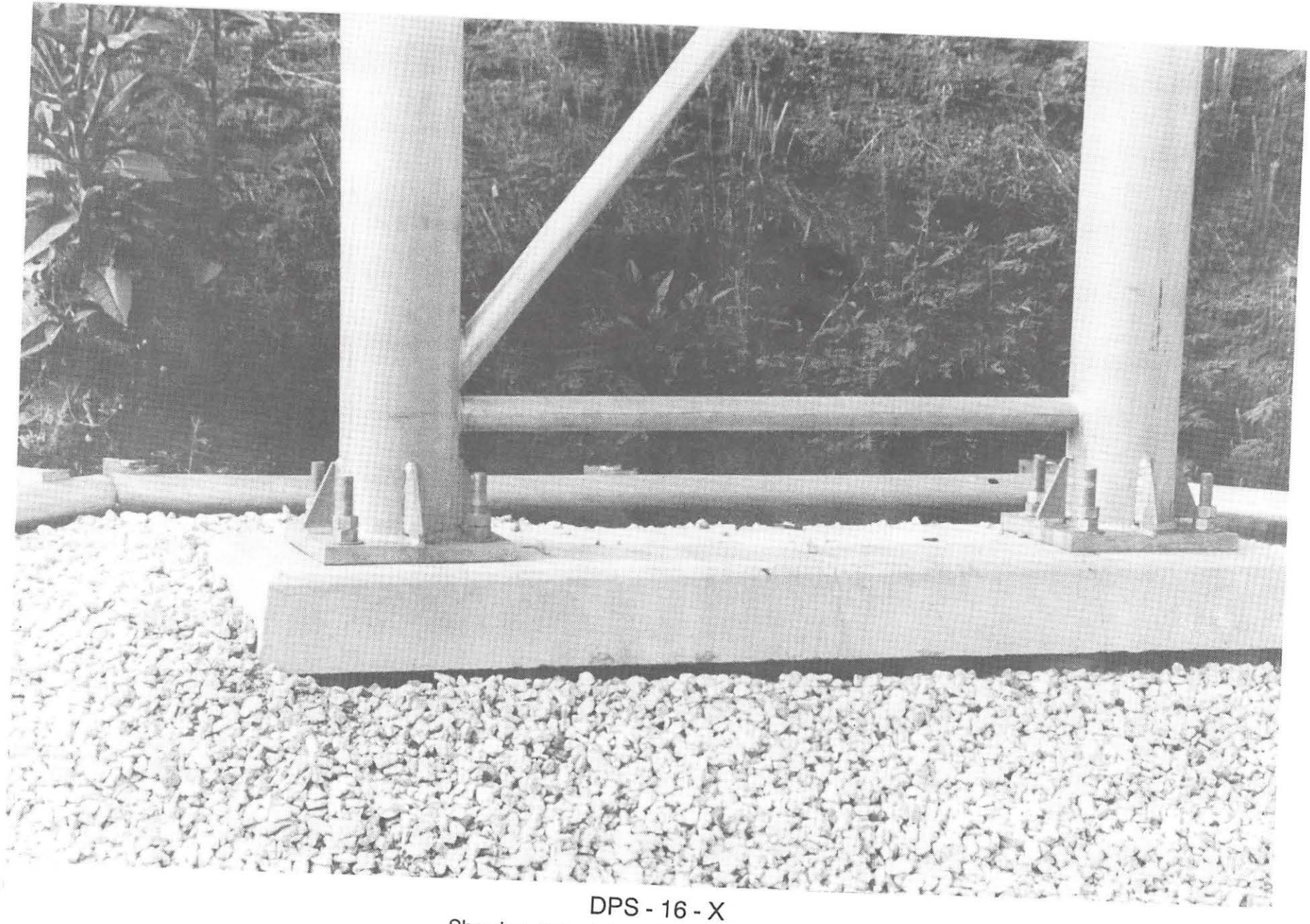


FRONT VIEW

SIDE

DPS - 16 - X

FOR: SIGNAL BRIDGE



DPS - 16 - X

Showing top of foundation after installation

DPS - 16 - X

Completely installed

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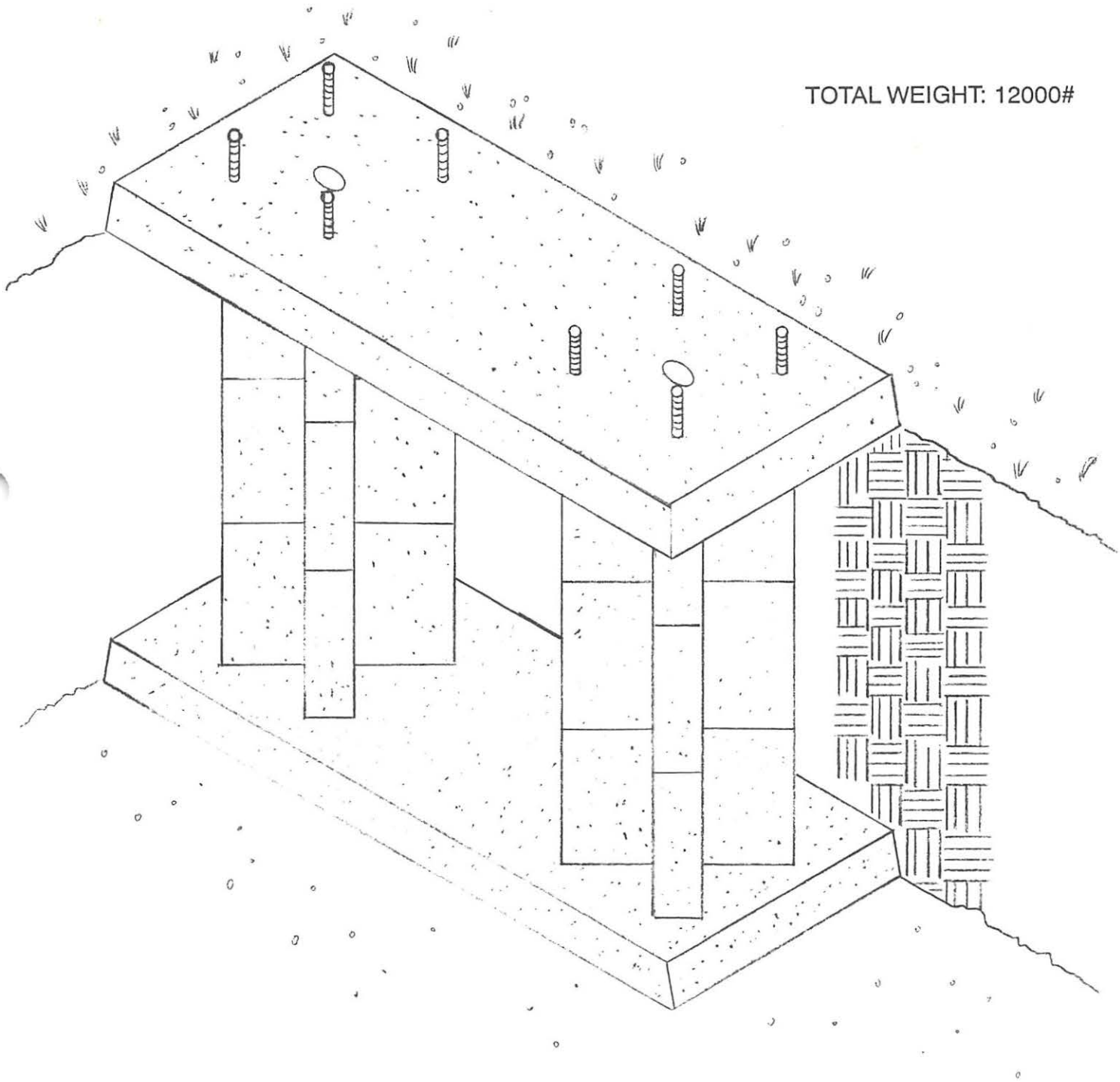
9-96

PATENTED

TOTAL WEIGHT: 12000#



DPS - 16 - H

FOR: SIGNAL BRIDGE WITH 19" X 19" BOLT PATTERN

DIXIE PRECAST, INC.
2950 ANGELETTE DRIVE, AUSTELL, GEORGIA 30001
(770) 944-1930 FAX: (770)-944-9136

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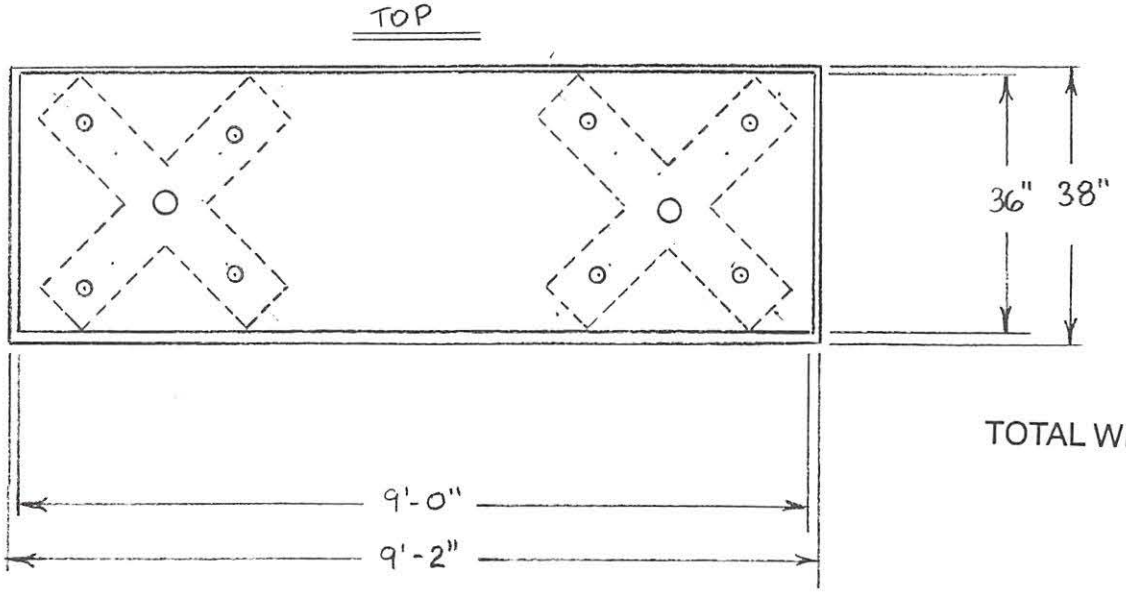
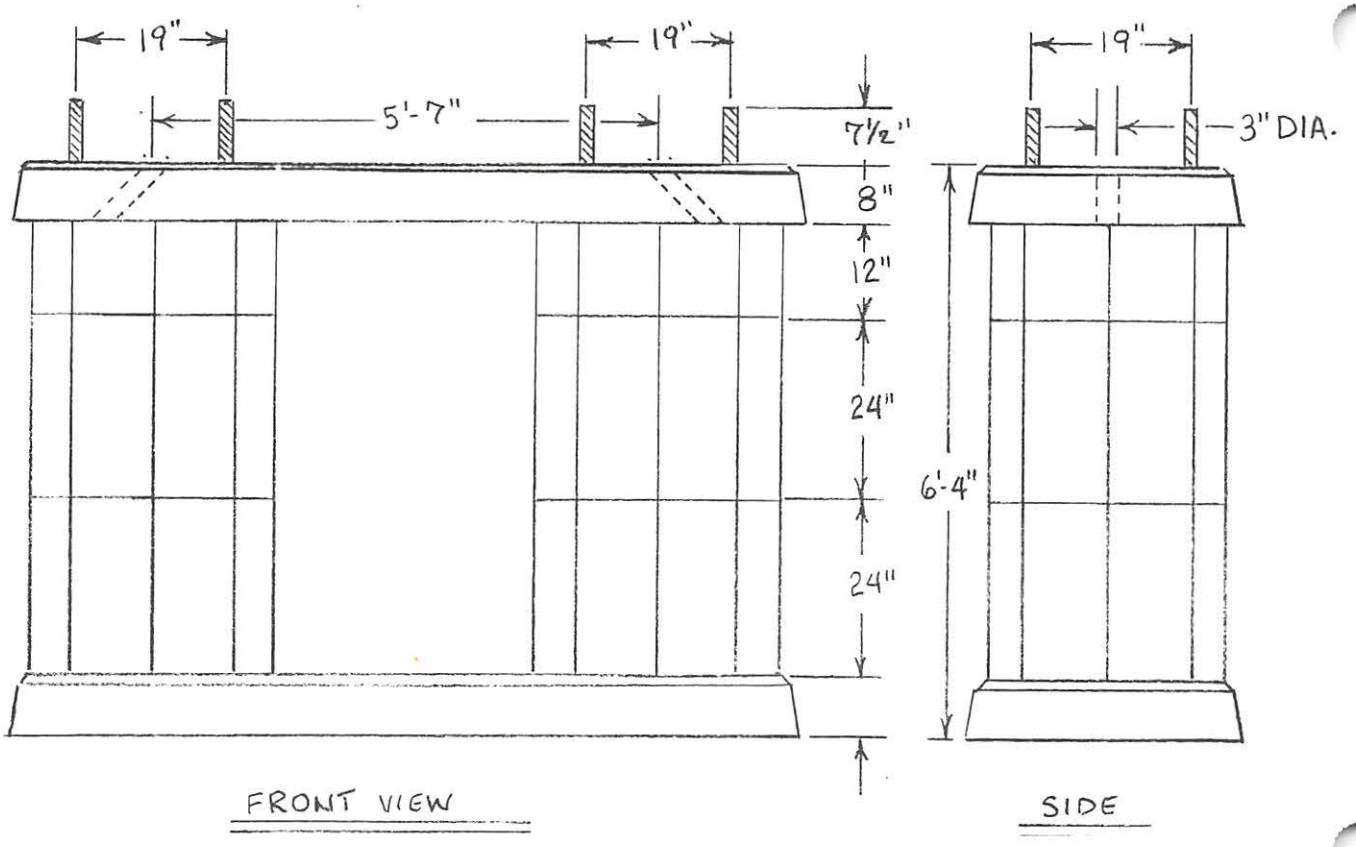
PATENTED



TOTAL WEIGHT: 12000#



DPS - 16 - H

FOR: SIGNAL BRIDGE WITH 19" X 19" BOLT PATTERN

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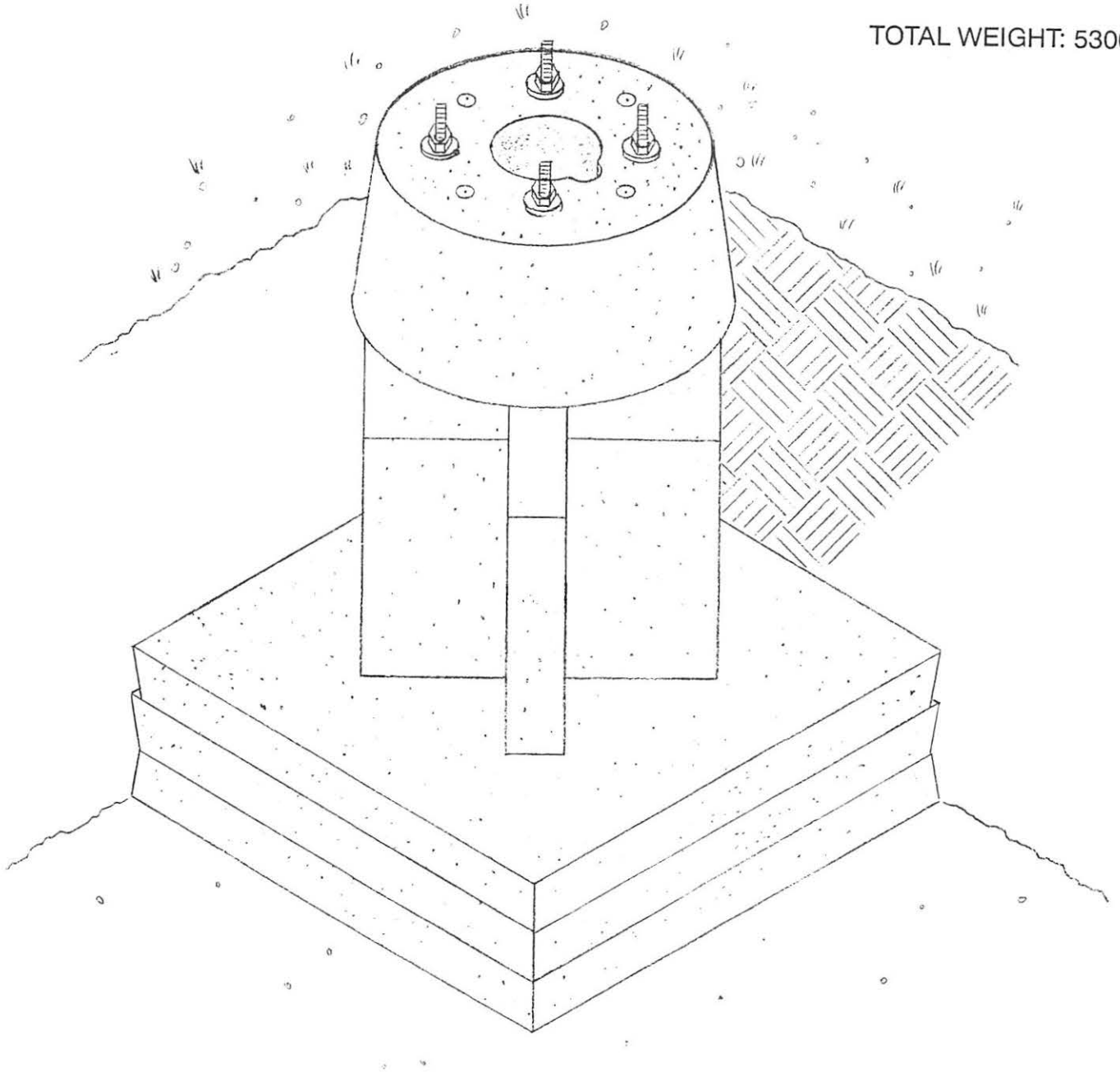
PATENTED

TOTAL WEIGHT: 5300#



DPS - 9 - RC

FOR: ROTATING CANTILEVER

DIXIE PRECAST, INC.
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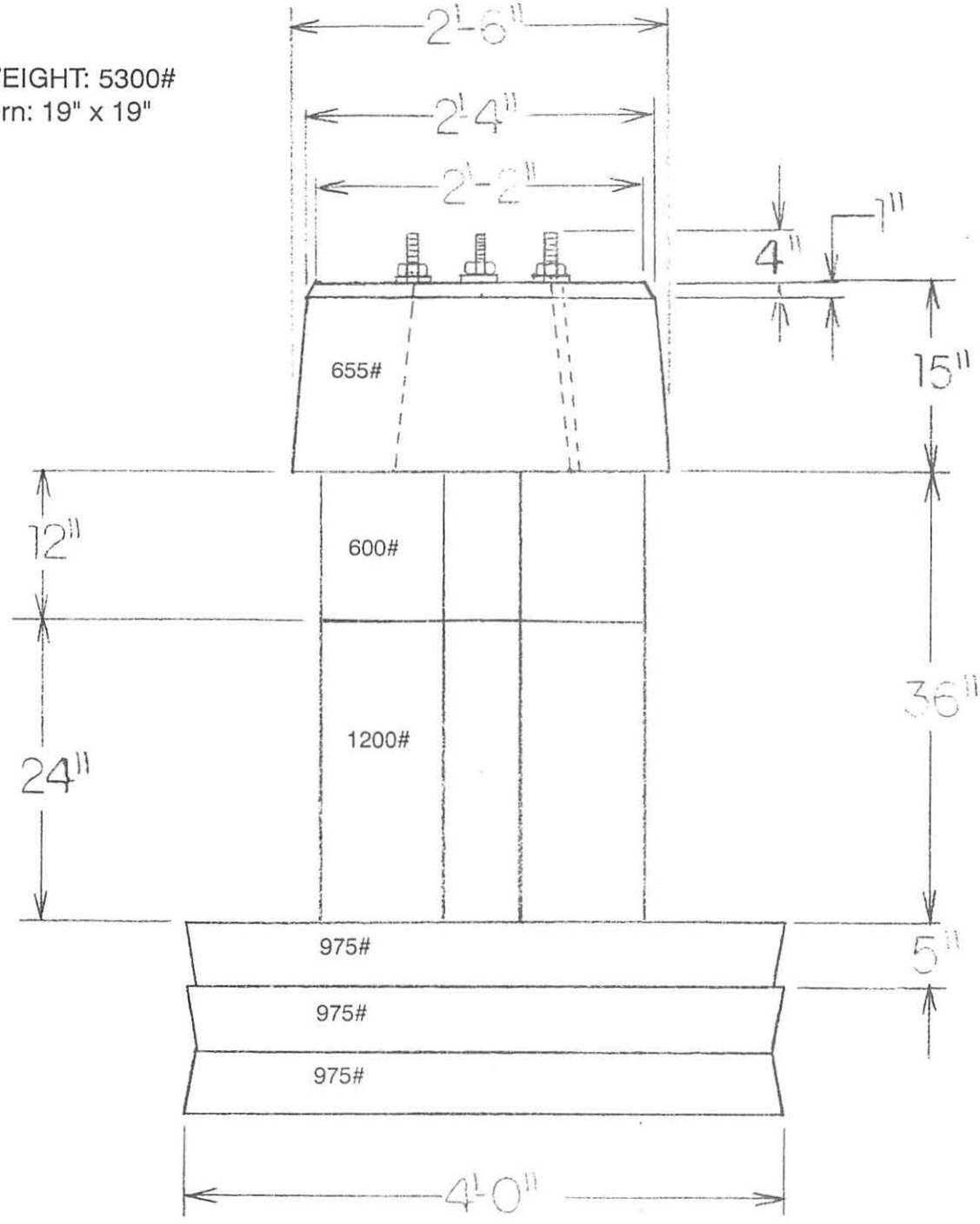
TOTAL WEIGHT: 5300#
Bolt Pattern: 19" x 19"



DPS - 9 - RC

FOR: ROTATING CANTILEVER

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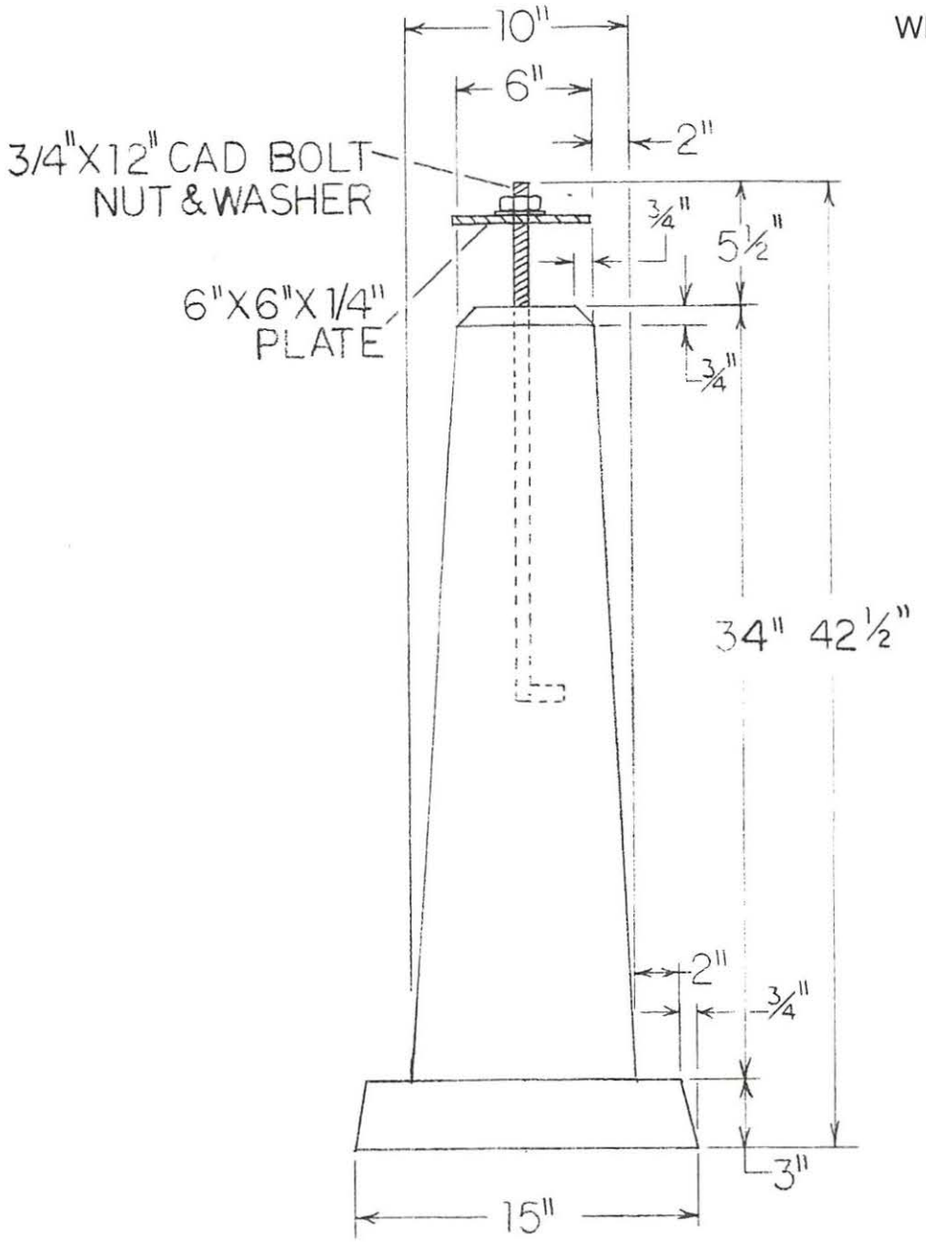
9-96

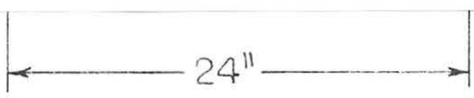
PATENTED

WEIGHT: 230#



DPP - 3

FOR: SHELTER PIER



AP - 392

FOR: CASE PIER

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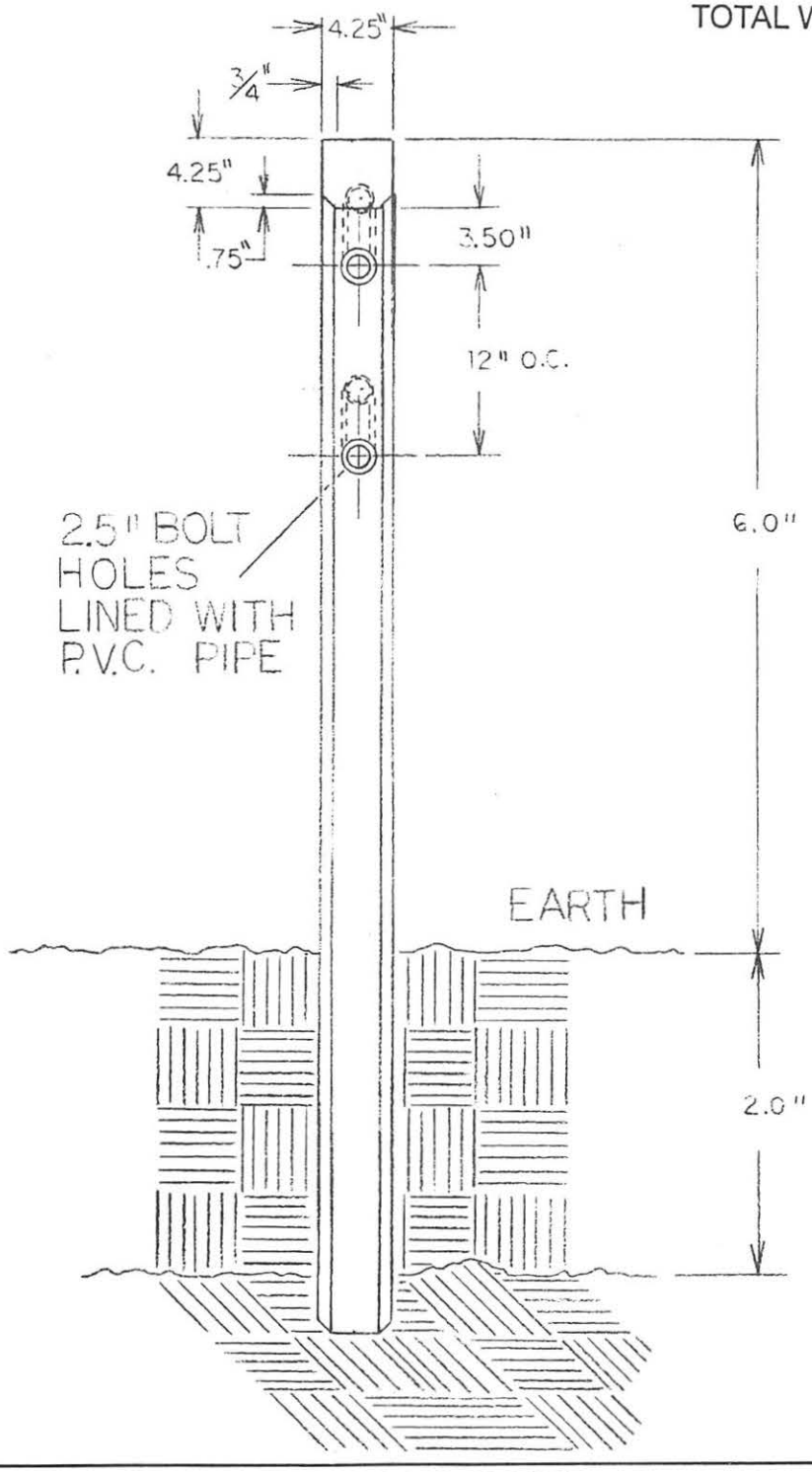
9-96

TOTAL WEIGHT: 130#



JUNCTION POST

8'

DIXIE PRECAST, INC.
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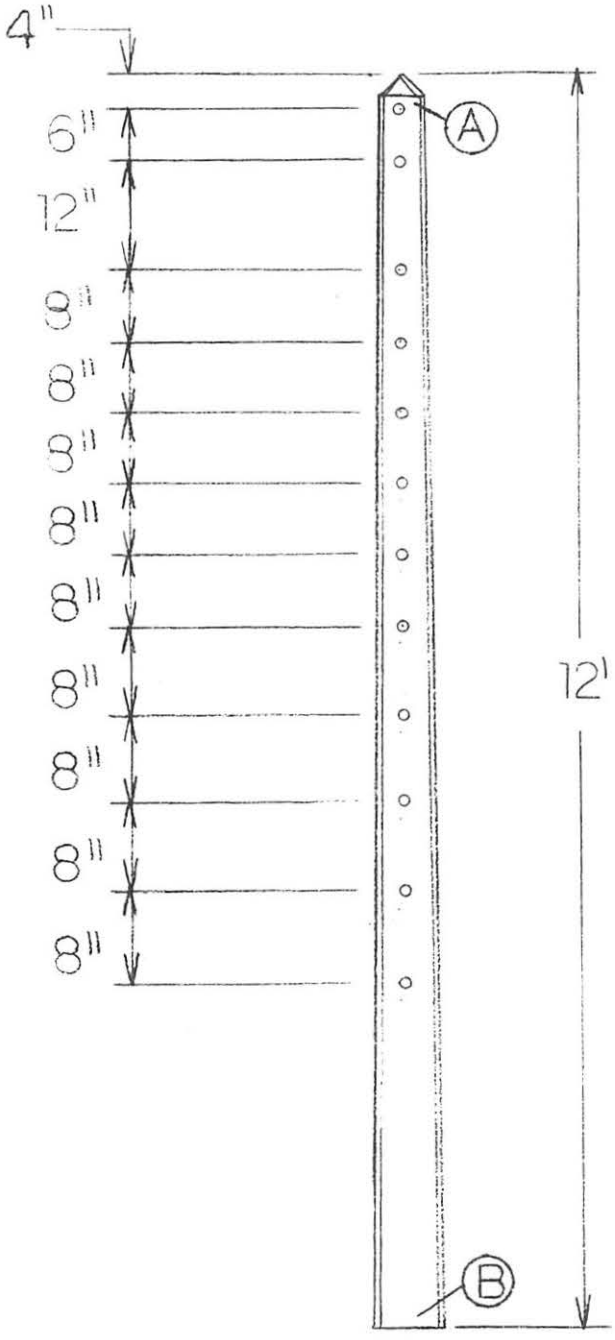
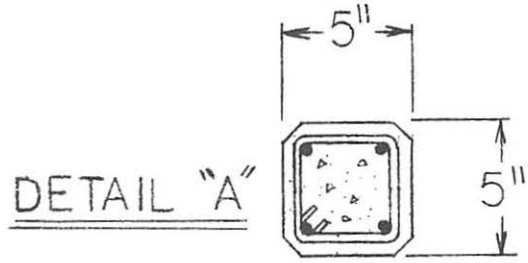
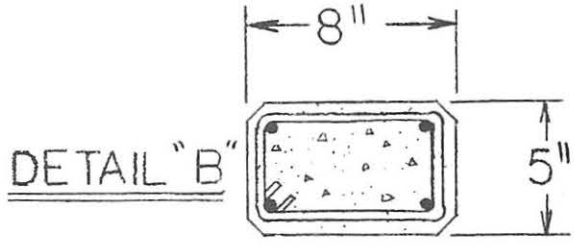
9-96

TOTAL WEIGHT: 355#







AAR - 12812 - POST

12'

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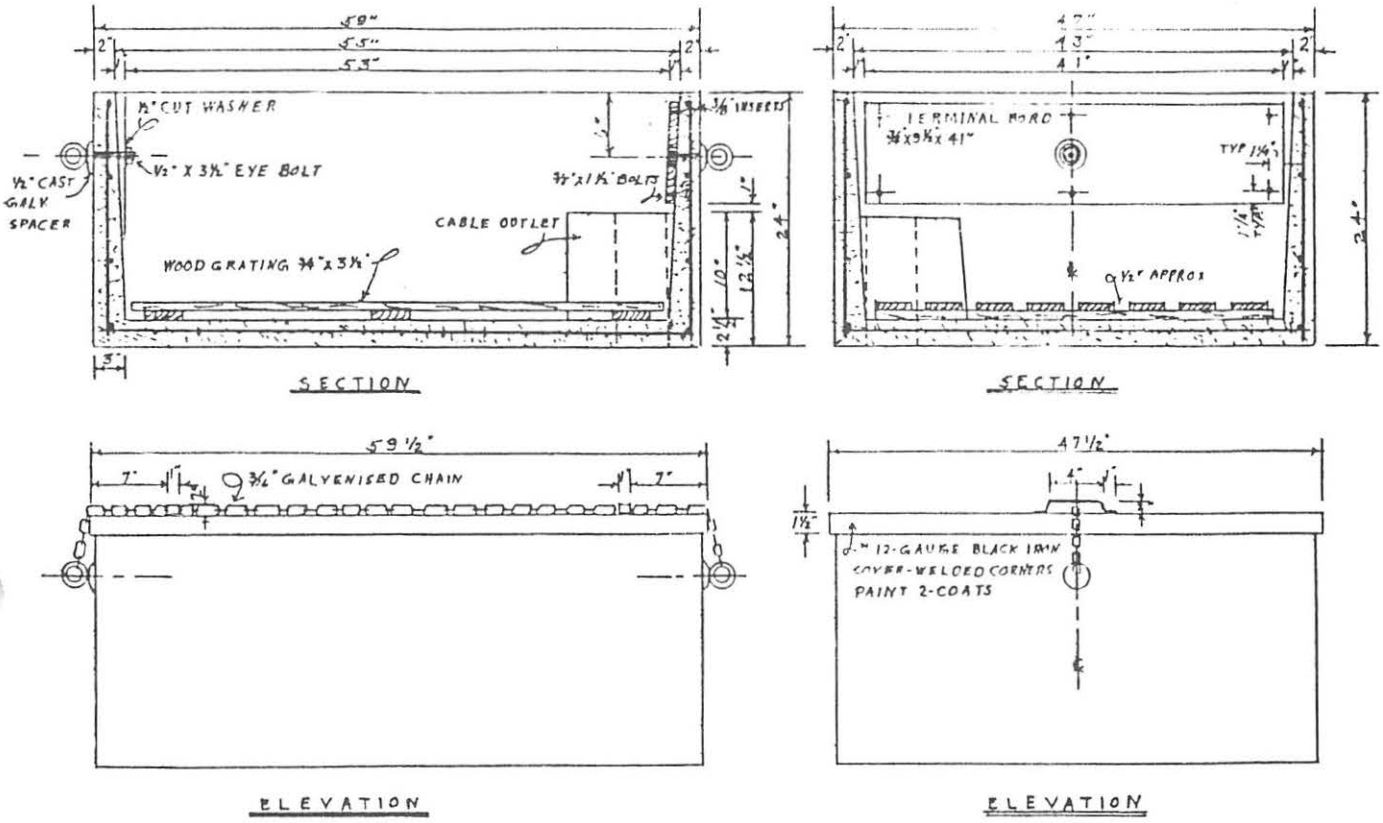
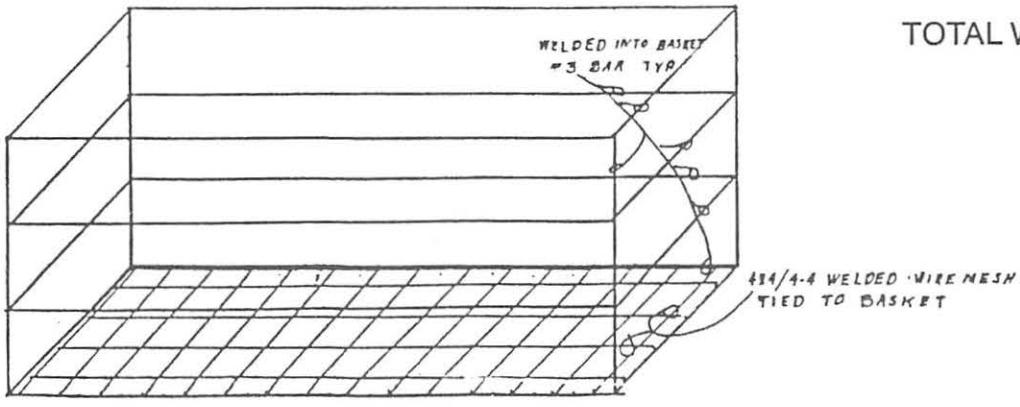
9-96

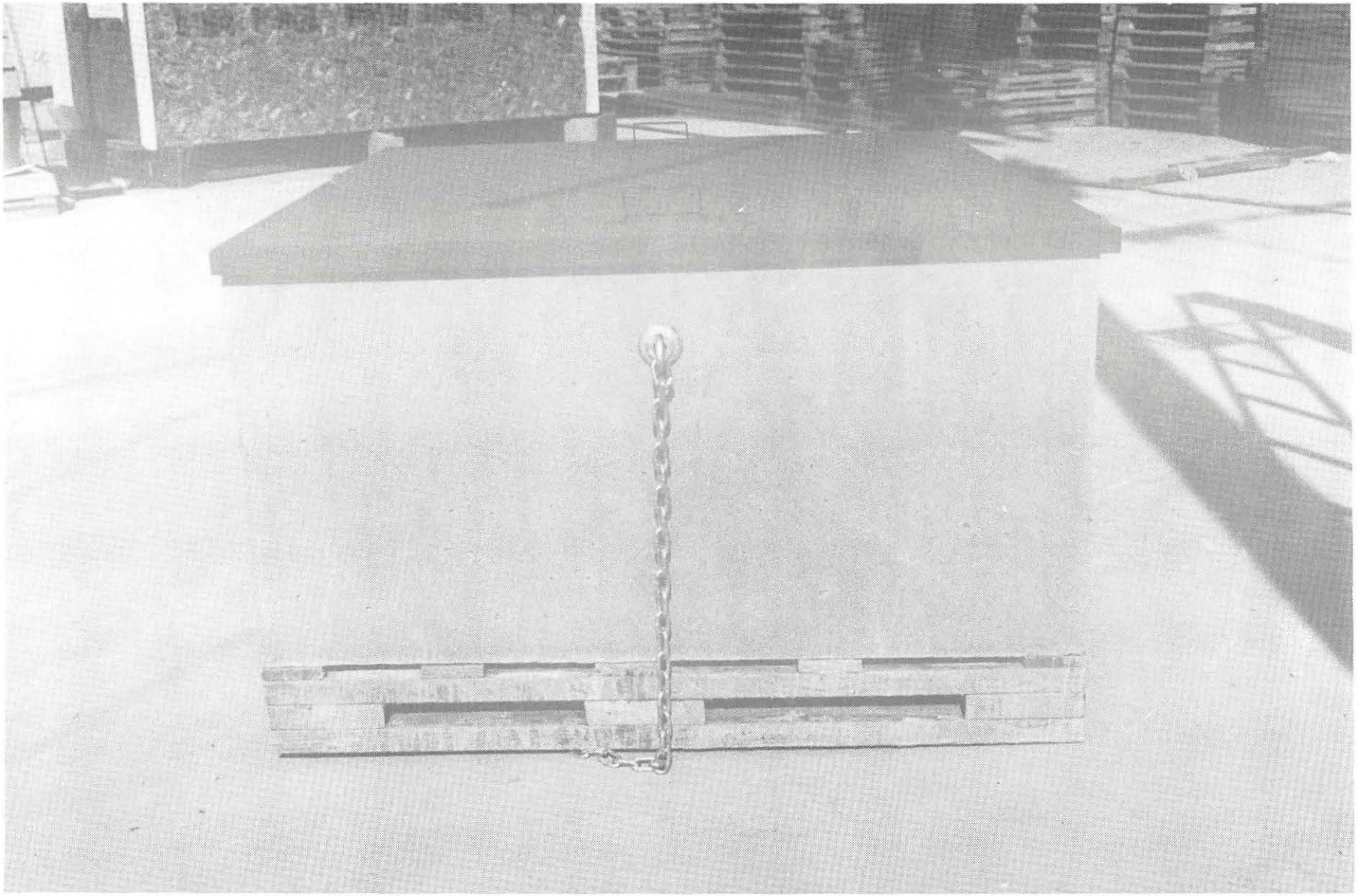




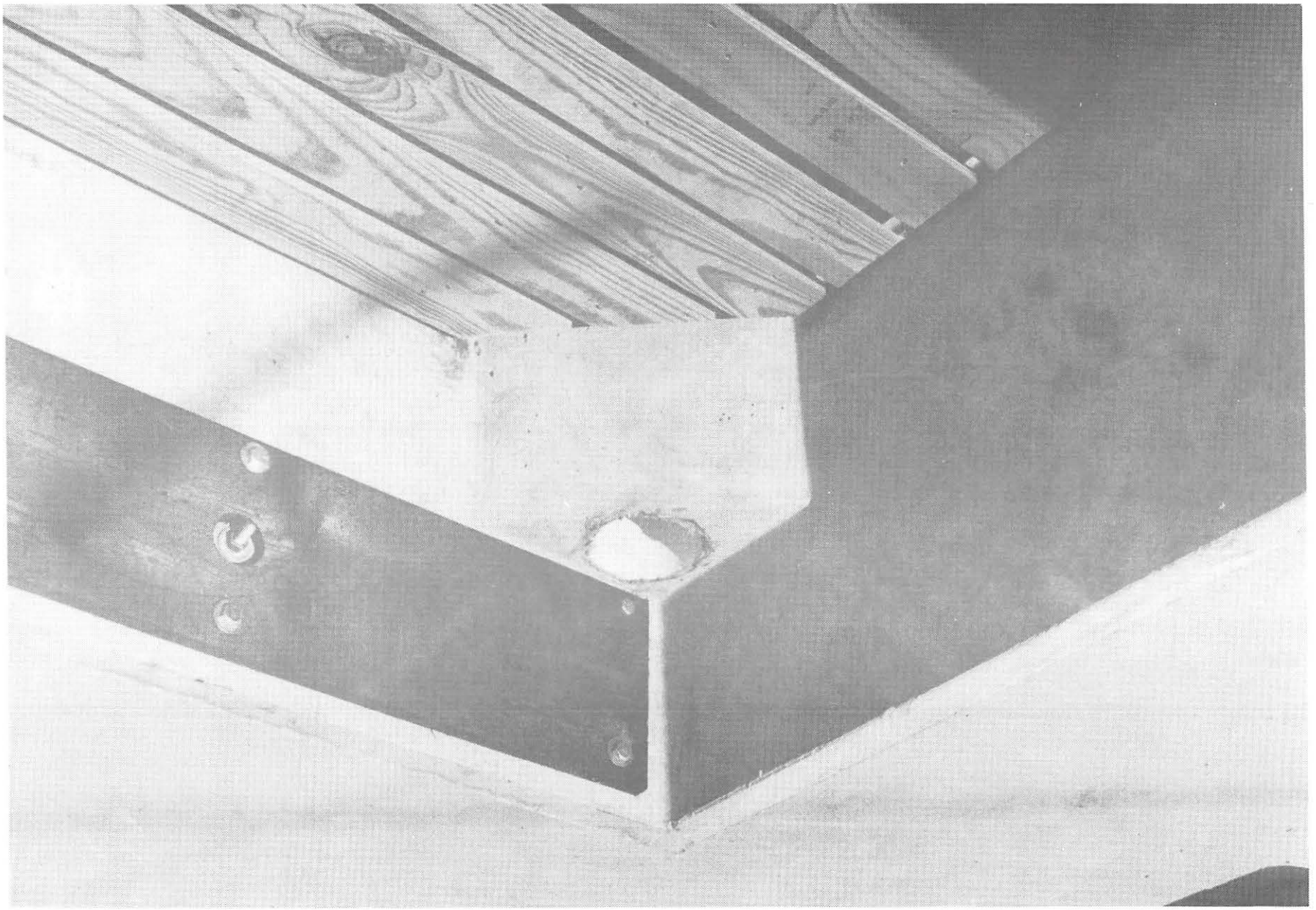
TOTAL WEIGHT: 1200#

BATTERY BOX #2

FOR: BATTERIES 16-CELL



#2 Battery Box
16 cell
Height 25"
Width 47" X 59"



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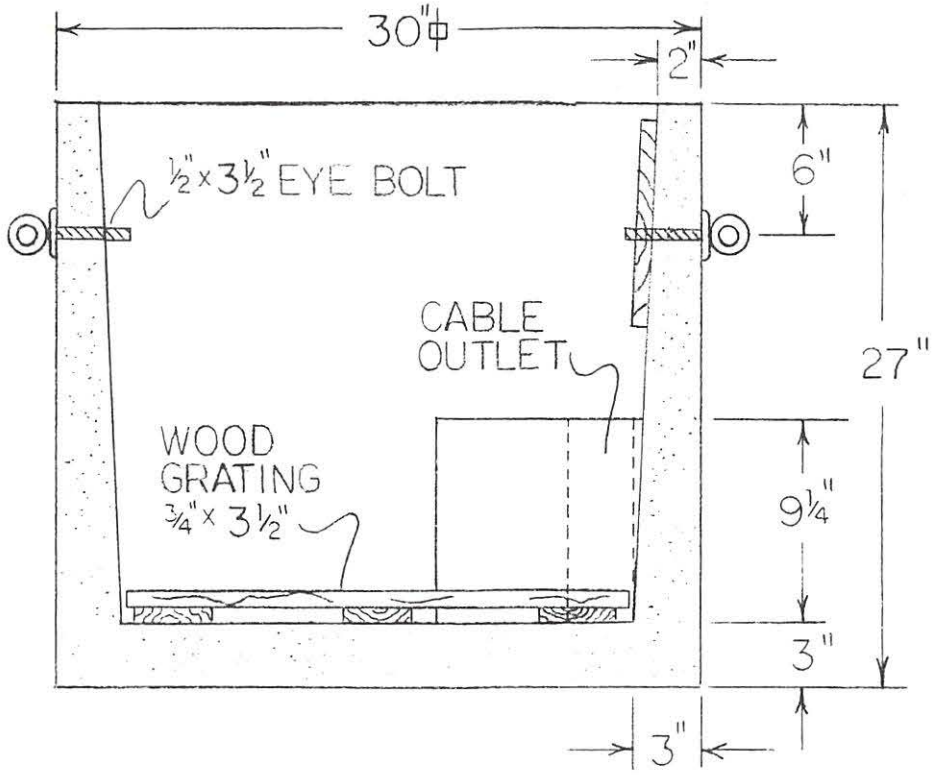
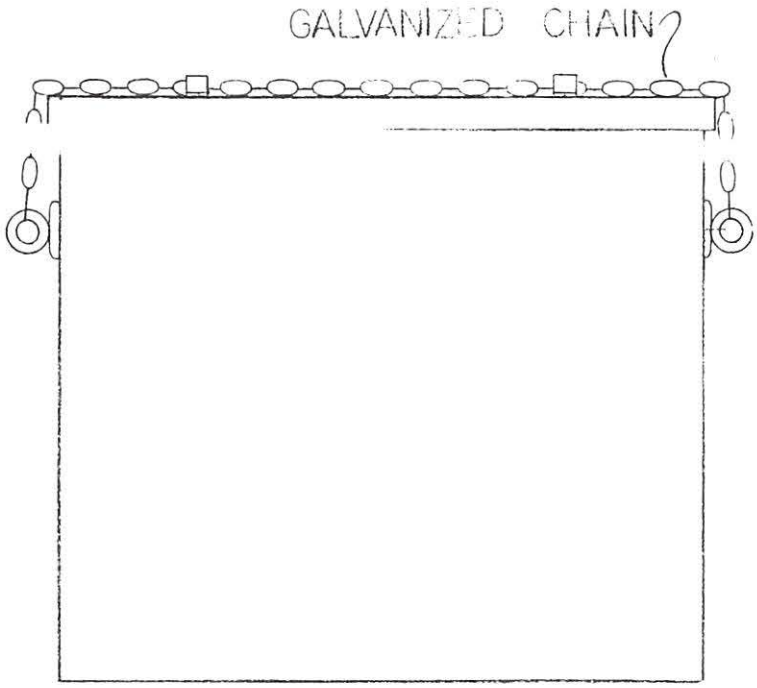
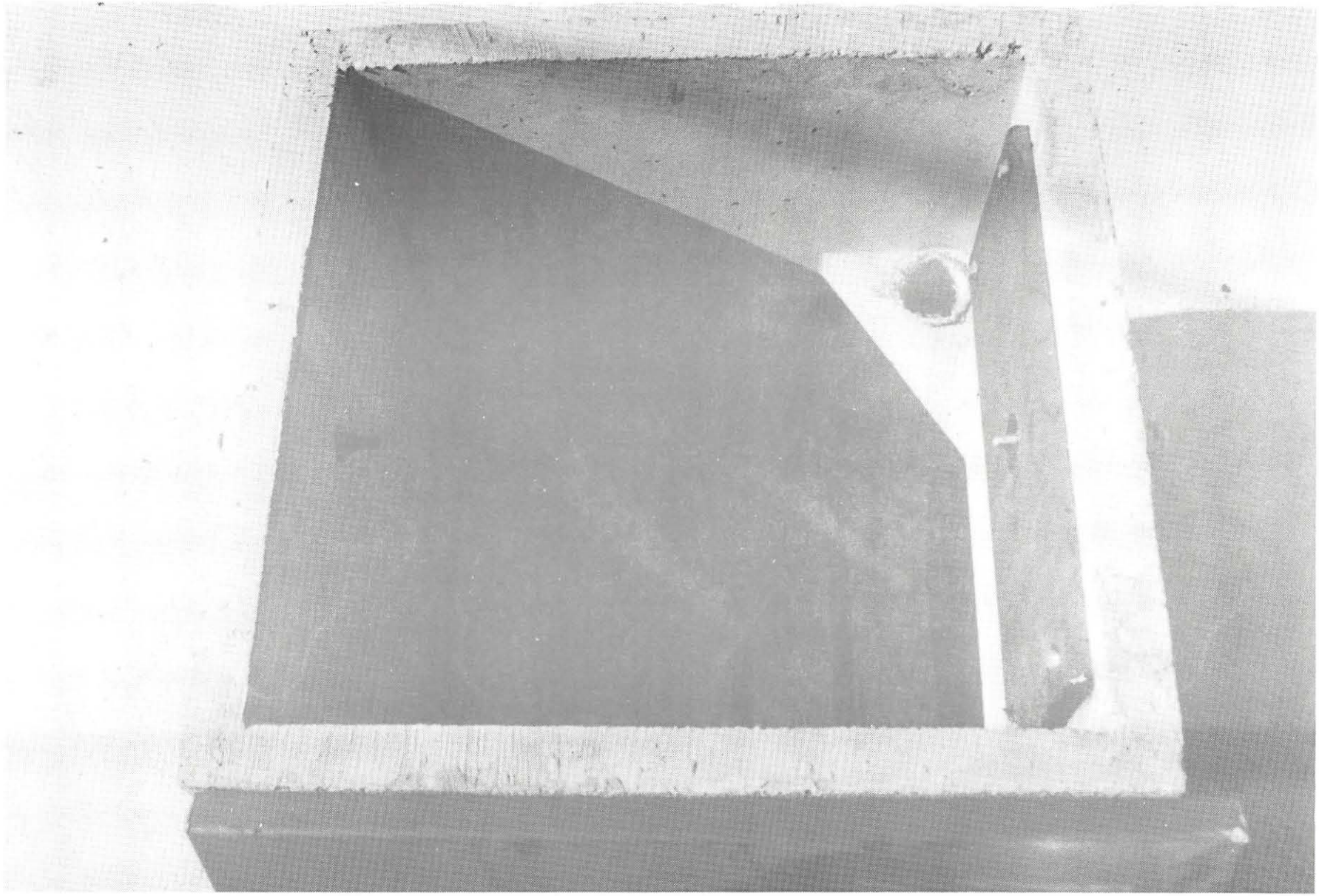
9-96





BATTERY BOX #5

FOR: BATTERIES 6-CELL



#5 Battery Box

6 cell showing interior with cable hole 3"
Height 27".
Width 30" X 30"

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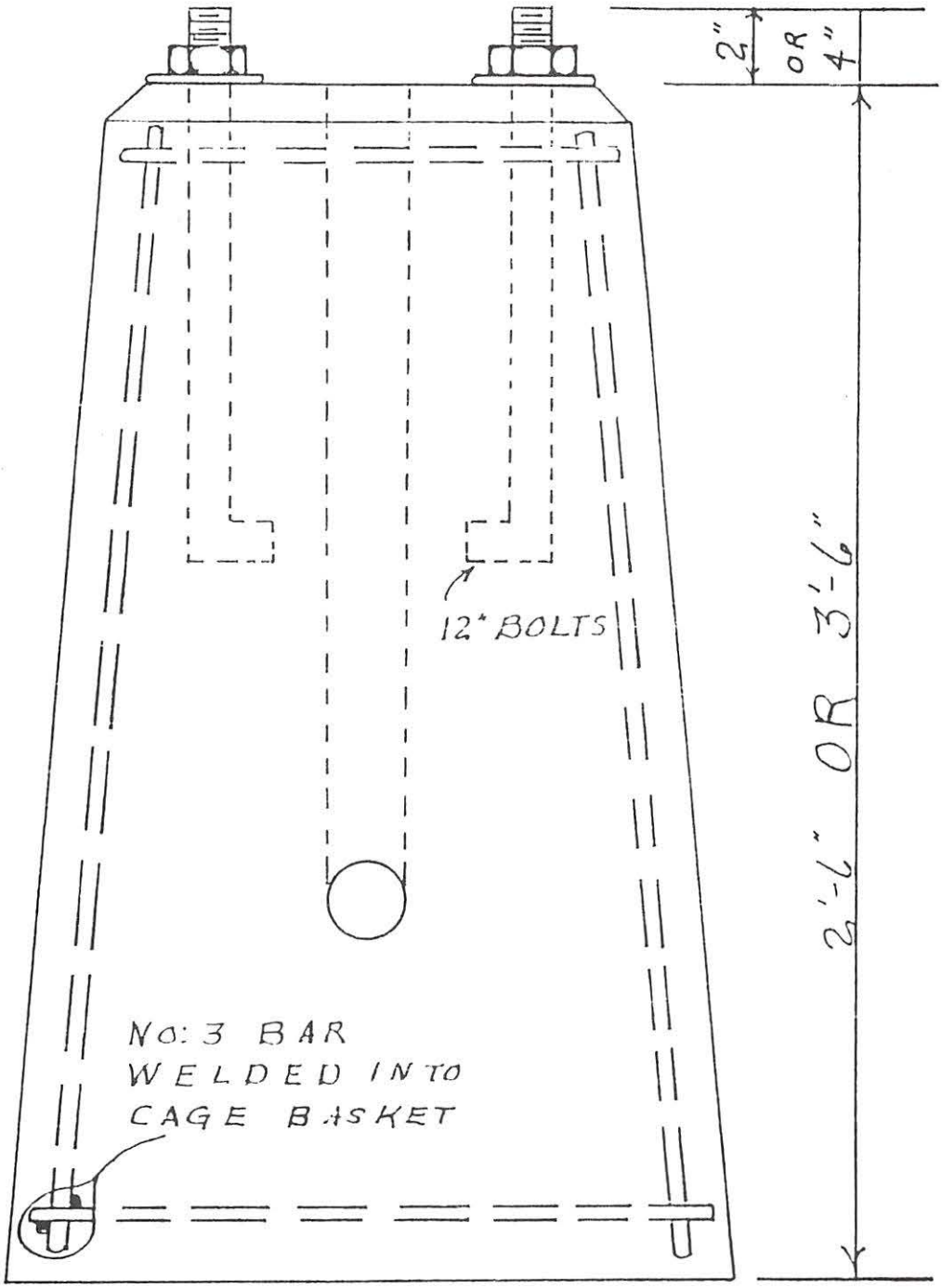

H - FOUNDATIONS

FOR: DWARF SIGNALS

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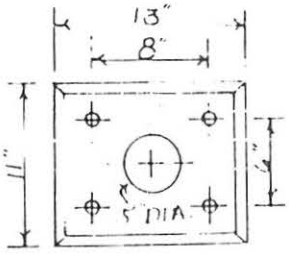
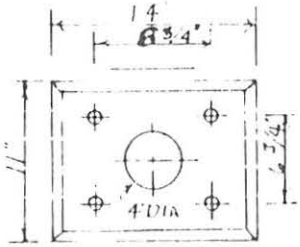


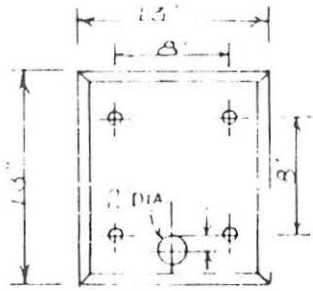
DPH-11

HEIGHT 3'6"
FOR US&S ES-10 SWITCH LAMP PLATE B-3500 OR G.R.S. TYPE "P" SWITCH SIGNAL PLATE 2801 FOUR 3/4" GALV. BOLTS, NUTS & WASHERS.



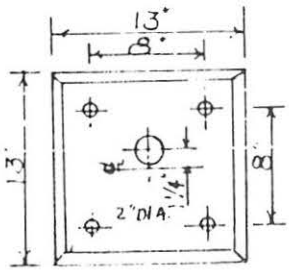
DPH-112

HEIGHT 3'6"
FOR G.R.S. TYPE "FA" COLORLIGHT DWARF SIGNAL PLATES H-2409 & 2411 FOUR 3/4" GALV. BOLTS, NUTS & WASHERS.



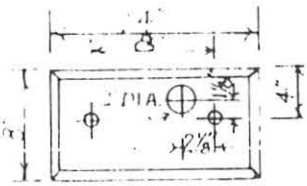
DPH-133

HEIGHT 2'6"
CABLE ENTRANCE 5" OFF CENTER & SLOPES IN. WITH FOUR 3/4" GALV. BOLTS, NUTS & WASHERS.



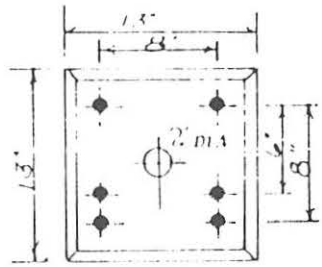
DPH-131

HEIGHT 2'6"
FOR SEARCHLIGHT, "SA" SIGNALS. WITH FOUR 3/4" GALV. BOLTS, NUTS & WASHERS.



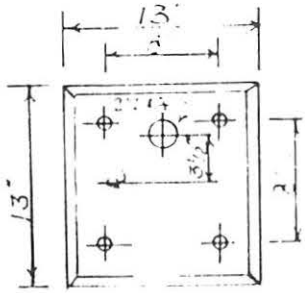
DPH-12

HEIGHT 3'0"
FOR US&S CO. TYPE "N" & "N-2" COLOR LIGHT SIGNAL. WITH TWO 3/4" GALV. BOLTS, NUTS & WASHERS. (some models of n-2 require 5/8" bolts, request if required)



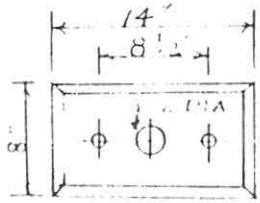
DPH-135

HEIGHT 3'6"
3/4" INSERTS FOR 6"X8" OR 8"X8" SPACING. USED FOR CABLE POST & DWARF SIGNALS. FOUR 3/4" GALV. BOLTS, NUTS & WASHERS.



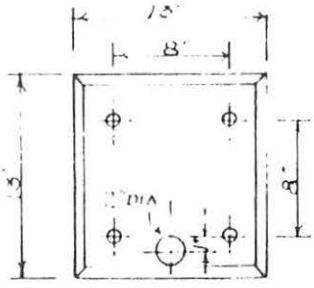
DPH-132

HEIGHT 3'6"
FOR US&S CO. TYPE H-5 WITH FOUR 3/4" GALV. BOLTS, NUTS & WASHERS.



DPH-121

HEIGHT 3'0"
FOR DWARF SIGNAL GRS COLORLIGHT STYLE "ME" WITH TWO 3/4" GALV. BOLTS, NUTS, & WASHERS.



DPH-134

HEIGHT 3'6"
CABLE ENTRANCE 5" OFF CENTER & SLOPES IN. WITH FOUR 3/4" GALV. BOLTS, NUTS & WASHERS.

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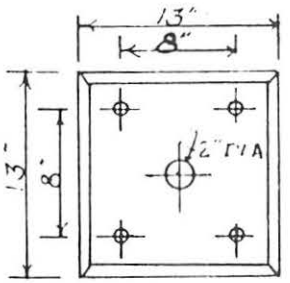
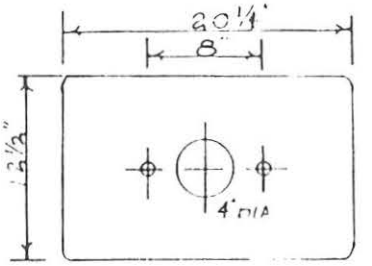


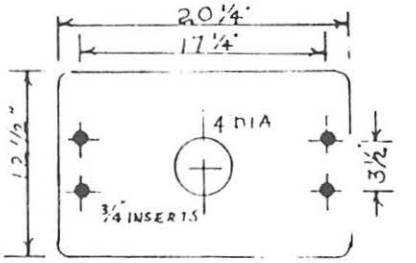
DPH-13

HEIGHT 2'6
FOR SEARCHLIGHT, "SA" SIGNALS. WITH FOUR 3/4" GALV. BOLTS, NUTS & WASHERS.



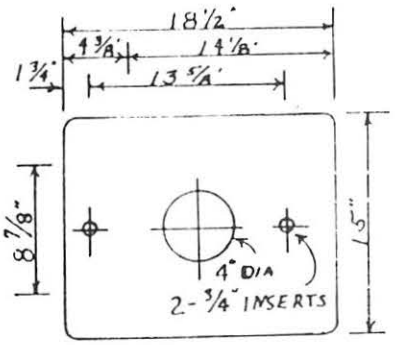
DPH-14

HEIGHT 2'6"
FOR TYPE "N" & "N2" COLORLIGHT FOR "TN" & "TN-2" BOLT SPACING IS 12" C-C, ALSO FOR E 0943 CASE. TWO 3/4" GALV. BOLTS, NUTS & WASHERS.



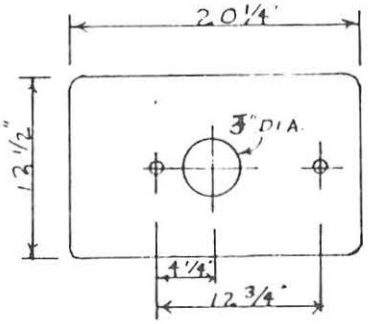
DPH-141

HEIGHT 2'6"
FOR POSITION LIGHT DWARF SIGNAL. US&S CO, PLATE B2425 OR GRS PLATE 3105 FOUR 3/4" GALV, CAP SCREWS.



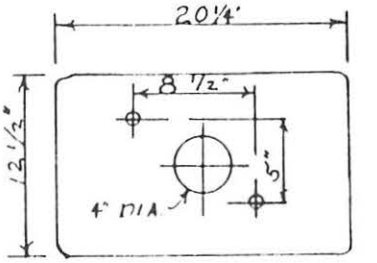
DPH-15

HEIGHT 2'6"
FOR US&S CO. PLATE C 2771 TWO 3/4" GALV. BOLTS, NUTS & WASHERS.



DPH-143

HEIGHT 2'6"
FOR US&S CO. 12-3/4" C-C. ELECTRIC SWITCH LAMP 20, PLAN B-3510. TWO 3/4" GALV. BOLTS, NUTS & WASHERS.



DPH-144

HEIGHT 2'6" 10" C-C
FOUR LIGHT BRACKET MOUNTING INSERTS ON FACE, 4" X 12-3/4" CENTERED 5" FROM TOP, SIX 3/4" GALV, BOLTS, NUTS & WASHERS.

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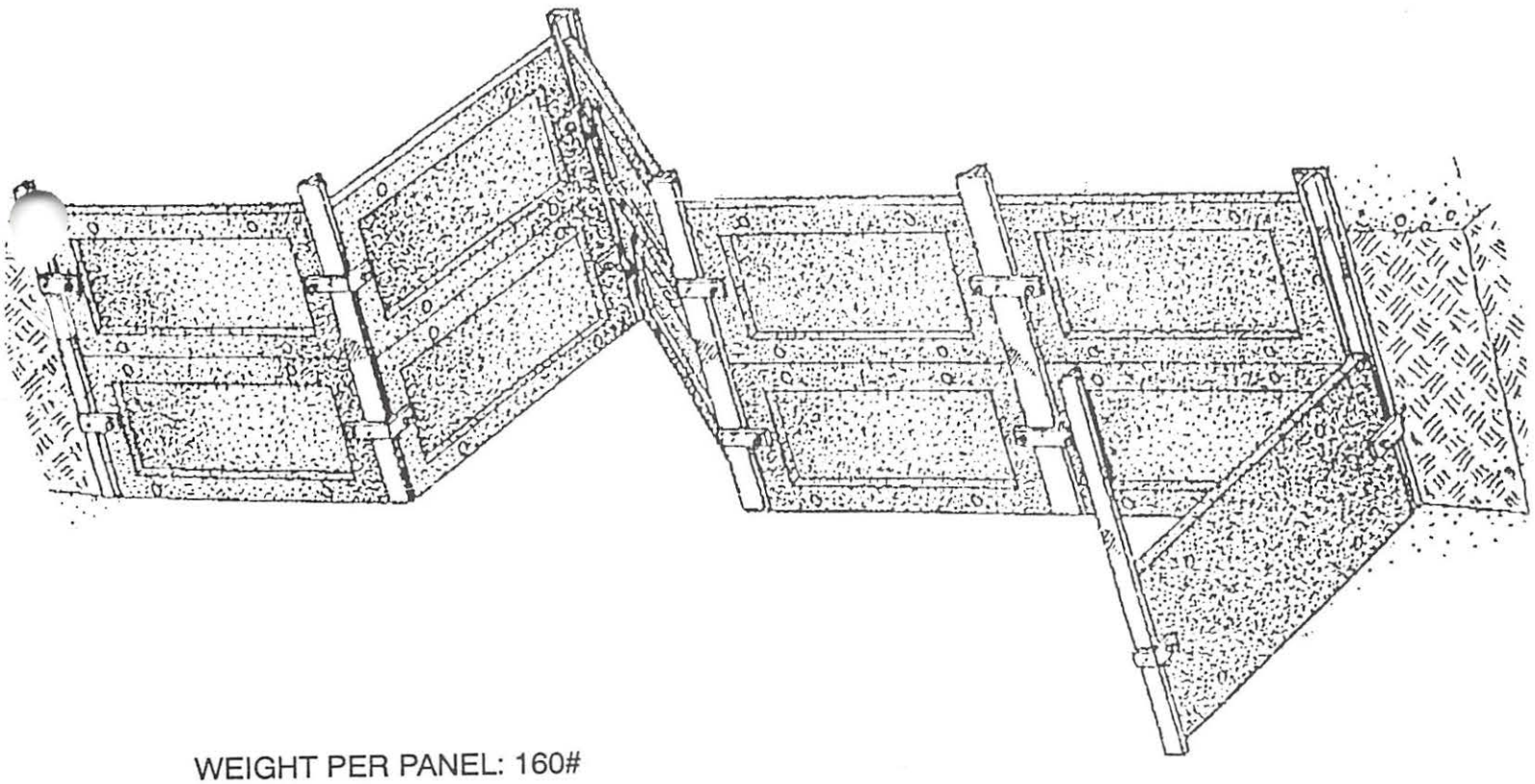

WEIGHT PER PANEL: 160#

RETAINING WALL

CAN BE ASSEMBLED IN ANY LENGTH OR WIDTH

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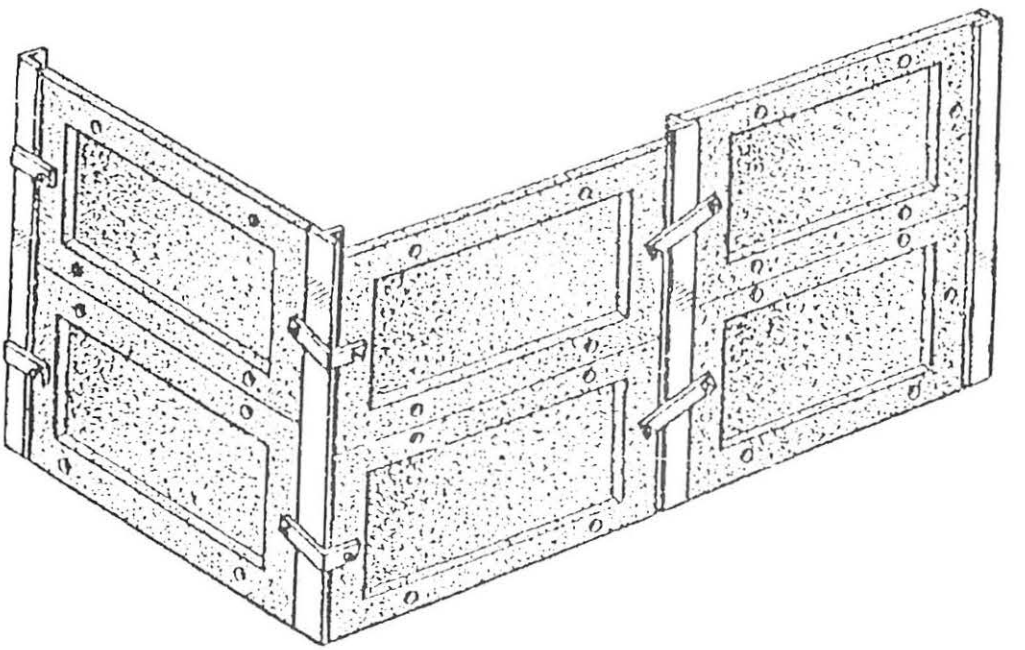
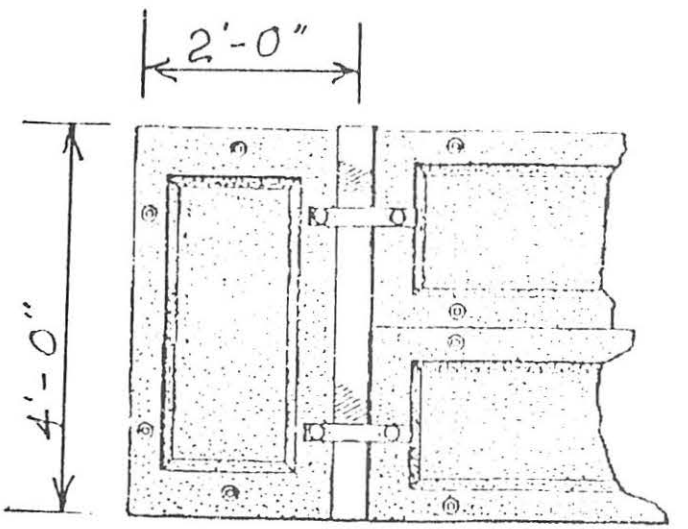
PATENTED





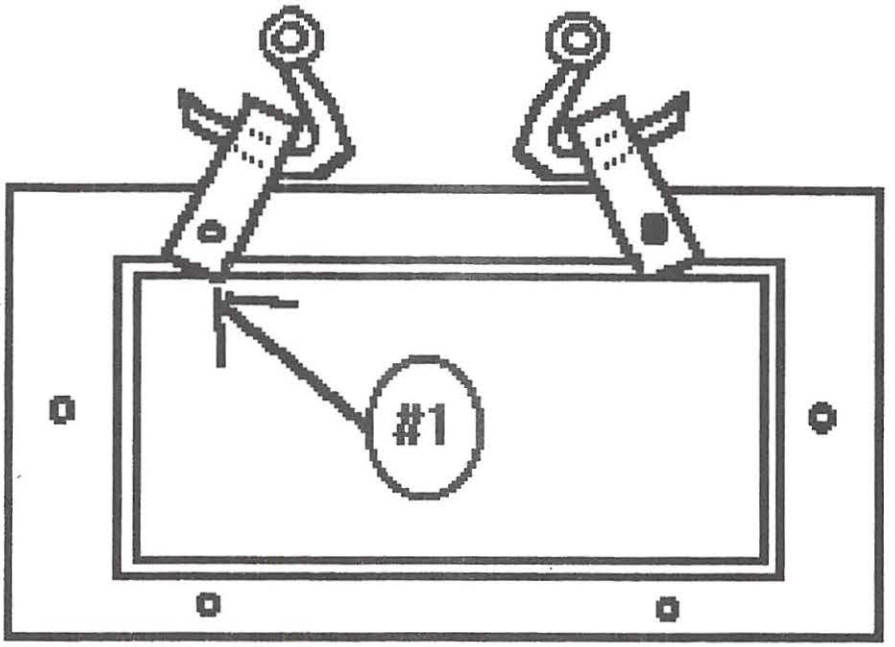
RETAINING WALL

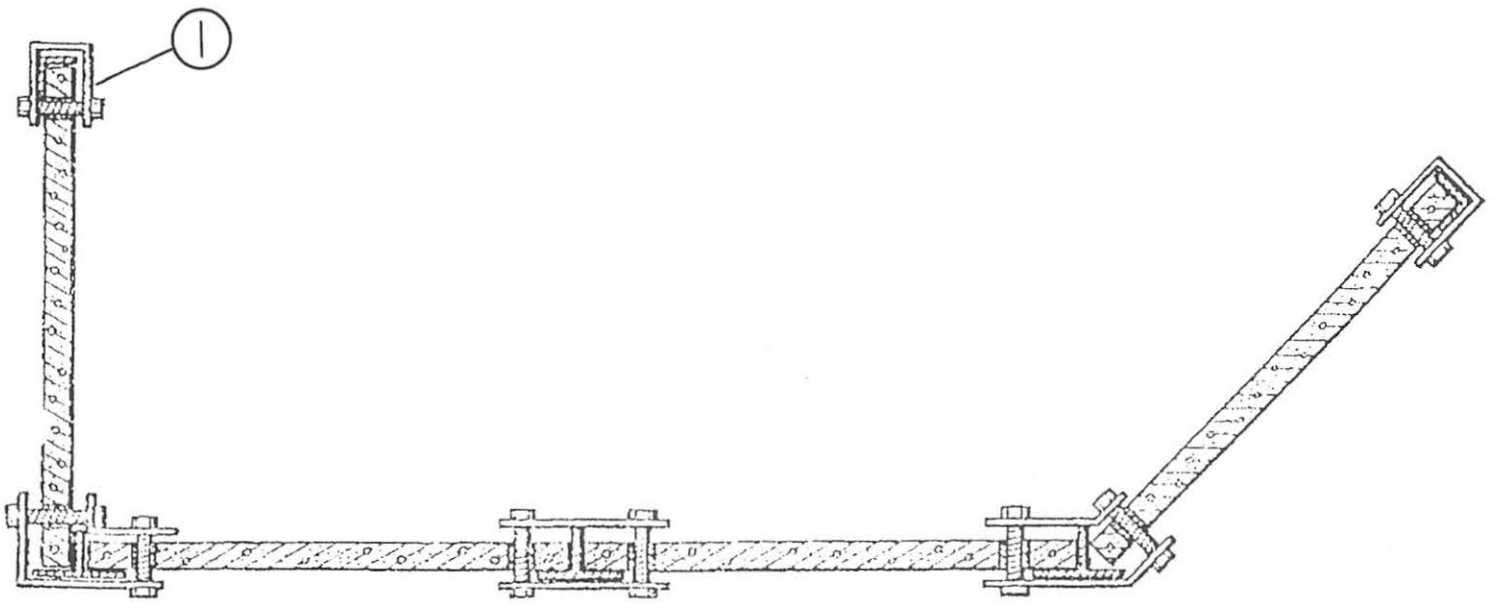
DIXIE PRECAST, INC.
2950 ANGELETTE DRIVE, AUSTELL, GEORGIA 30001
(770) 944-1930 FAX: (770)-944-9136

DIXIE PRECAST
THIS PRINT REPRESENTS A PROPRIETARY PRODUCT AND IS OWNED BY DIXIE PRECAST, INC. FOR THE USE OF ITS CUSTOMERS. IS NOT TO BE CONVEYED, NOR COPIED BY ANY OTHER PARTY WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE OWNER.

9-96

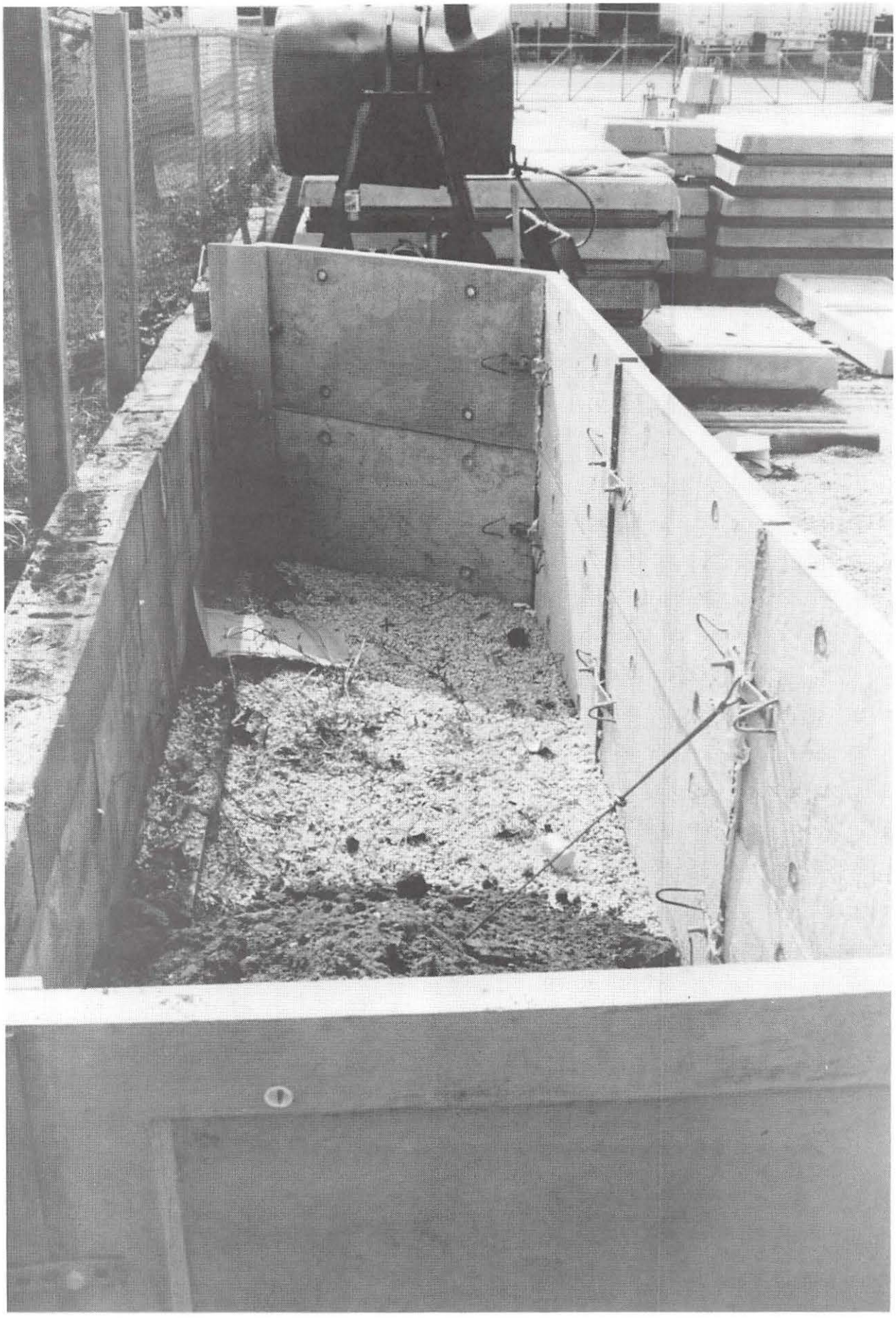
PATENTED



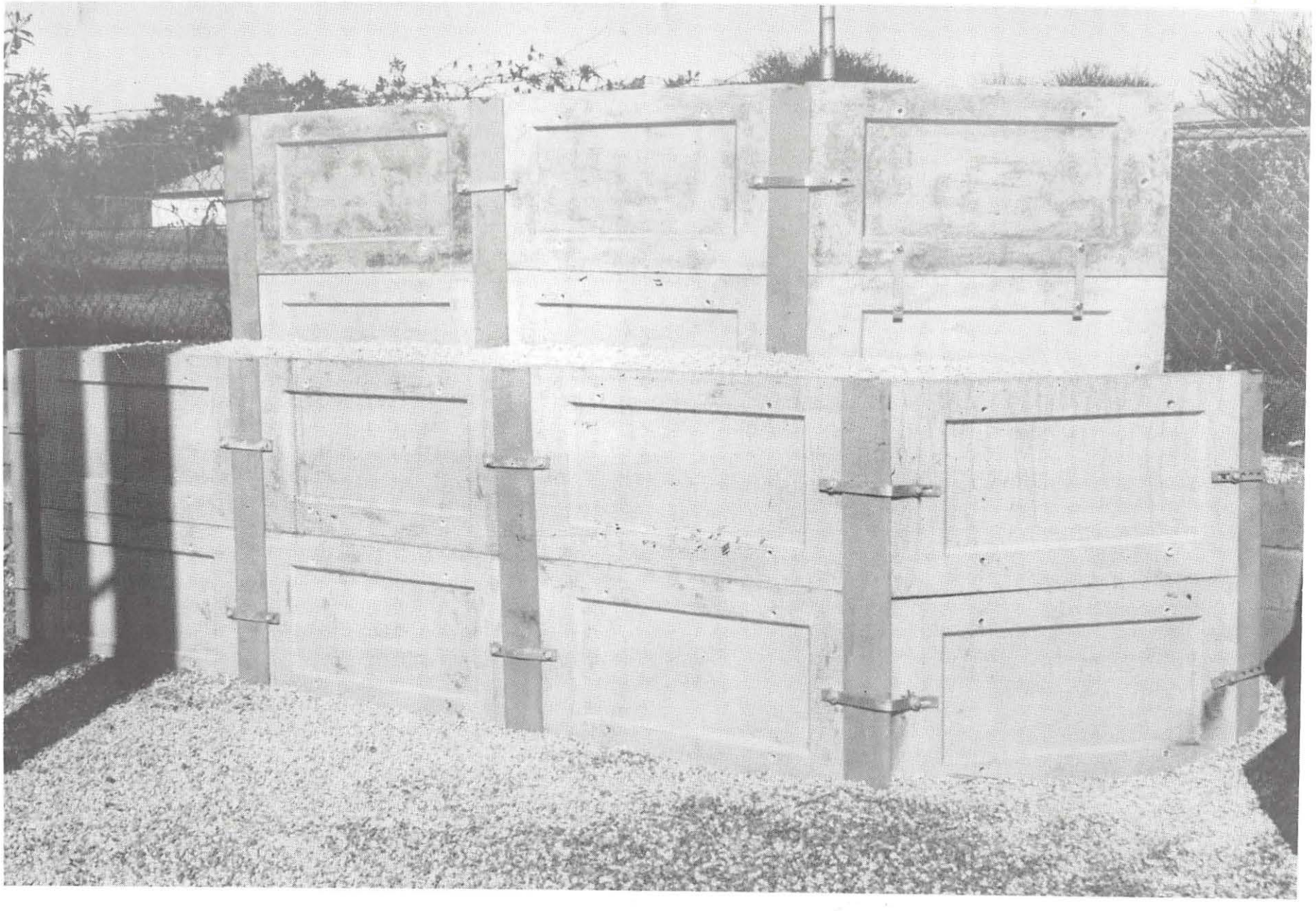


RETAINING WALL

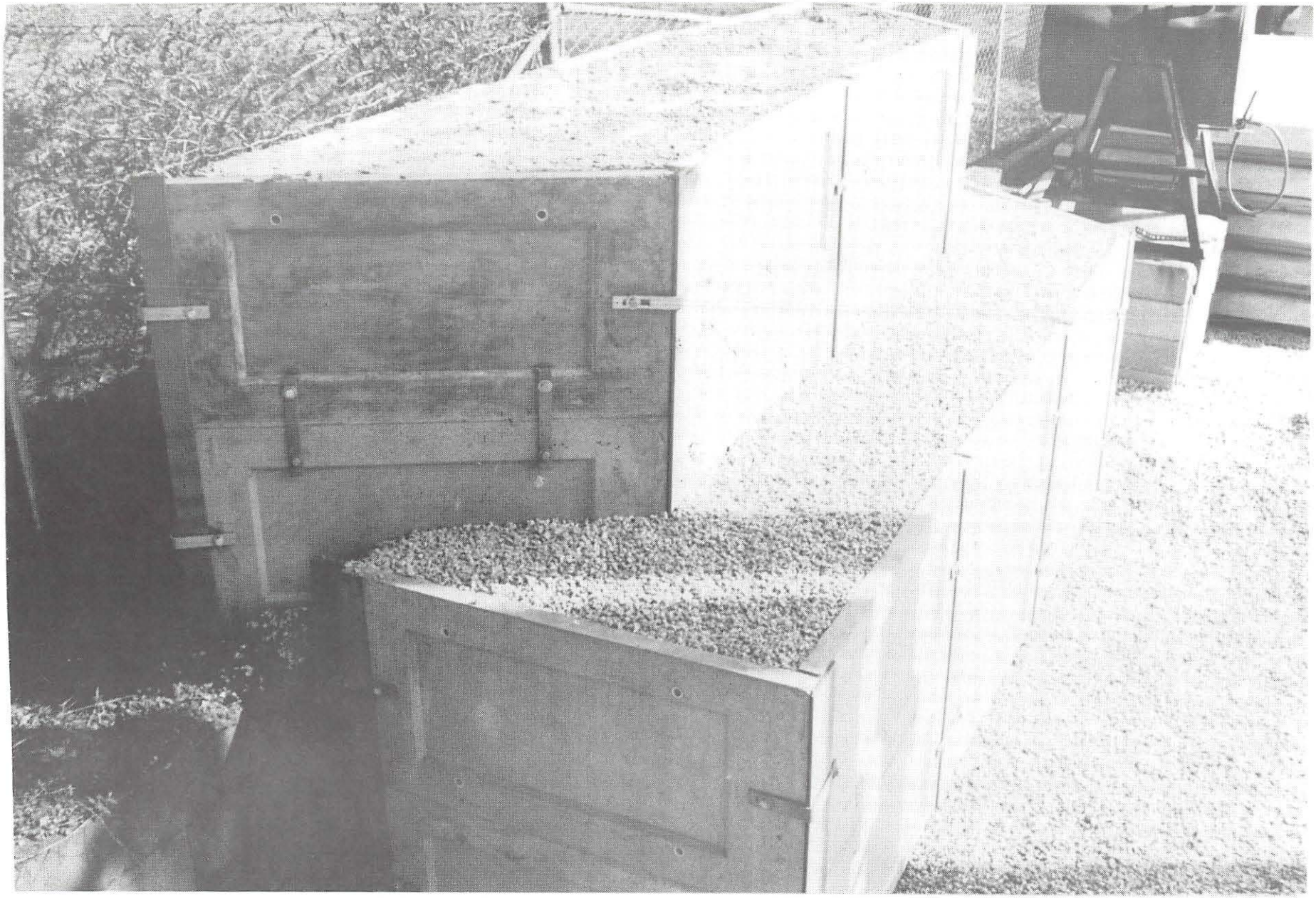
Retaining Wall
Simple drop in assembly.



Retaining Wall
Ready for backfill
Note: Cable support



Retaining Wall
Two Level



Retaining Wall-Two Level
Can be erected in many different shapes and sizes.

BRI
5/22/91

DIXIE PRECAST, INC.

4170 ANGELETTE DRIVE AUSTELL, GA. 30001
(404) 944-1930

MANUFACTURERS OF PRECAST CONCRETE
SINCE 1947

F.O.B.
AUSTELL, GA.

DIXIE PRECAST INC.

4170 ANGELETTE DR.
AUSTELL, GA. 30001
404-944-1930

SECTIONAL CONCRETE FOUNDATIONS

FOUNDATION	HEIGHT	WEIGHT	N/S R.R	C.S.X.	CONRAIL	I.C.G.	SAFETRAN	CAMCO	BURCO
DPS-1	3'-6"	710	670-250796	020-2060020-1	02207759	256-A			020-2060020-1
9 1/2 X 9 1/2 bolt space	4'-6"	940	670-250853	020-0014594-1			330027-T02208	1305-07	020-0014594-1
	5'-6"	990							
DPS-2	4'-6"	1300			02208005	256-B			
11-11/16" bolt space	5'-6"	1500	670-250879	020-2060060-1	02208252		330027-T02157		020-2060060-1
	6'-6"	1700	670-248931	020-2060070-1	02208500		330027-T02181	1309-07	020-2060070-1
	7'-6"	1900	670-249244						
DPS-4	5'-7"	2160	670-249595	020-2060100-1					020-2060100-1
DPS-4R	5'-7"	2160	670-249864						
DPS-9-2	6'-8"	3080				256-F			
	7'-8"	3340	670-250895	0200014604-1					020-0014604-1
DPS-10	7'-0"	6600	670-244905						
20 X 20 bolt space	8'-0"	7190		0200014591-1					020-0014591-1
DPS-10-3WS	7'-5"	10860							
19 X 19 bolt space	8'-5"	11240	670-003971	020-0014605-1	02205878	256-P	330027-T03148	1316-07	020-0014605-1
DPS-16X	6'-4"	7260	670-250978						
DPS-1919-9S	9'-2"	22500	670-000381	020-0014606-1	90220001	256-W			020-0014606-1
DPS-2317 (DM-40)	9'-1"	22500	670-003989				330027-T02184		
DPH-14	2'-6"					256-K			
DPAP-392	4'-0"	365	670-250837	0200014612-1		256-G	330027-T02166		020-0014612-1
DPAP-607	4'-0"	257	670-250811	02020602451	02205944	256-Y	330027-T02158	1323-07	020-2060245-1
DPAP-761	3'-2"	560	670-250936	020-2060240-1					020-2060240-1
DPH-12	3'-0"	422		020-2060280-1		256-H			020-2060280-1
DPH-13	2'-6"	585	670-244591			256-J			
DPH-112	3'-6"	585	670-250910		02205803				
DPH-131	2'-6"	585			02208658				020-0014530-1
DPH-135	3'-6"	820	670-248626	02000145301					
DPH-11					02206124				
#5 BATTERY BOX 28" X 28"	6 CELL	610		020-1250240-1		532-A			020-1250240-1
#5 REPLACEMENT RACK		25		020-1250247-1					020-1250247-1
#2 BATTERY BOX 43" X 55"	16 CELL	1130	670-000993	020-1250120-1		532-C			020-1250120-1
#2 REPLACEMENT RACK		62		020-1250127-1					020-1250127-1
JUNCTION BOX POST	8'	131	670-450500				400999-T00336		
MILE MARKER POST	9'	294		020-0771583-1					020-0771583-1
AAR-12812 POST	12'	375		0200055445-1	02362166	256-E			020-0055445-1
STEP-INSTRUMENT CASE		260		020-2050060-1					020-2050060-1
DP-9-9 safety Barricade			520-146162	020-000000-1					020-000000-1

INDEX

PRECAST CONCRETE PRODUCTS FOR RAILROADS

ITEM	ITEM #	PAGE
SPECIFICATIONS		1
CABLE POST, HIGHWAY CROSSING FLASHERS	DP S-1	6
CANTILEVER HIGHWAY CROSSING FLASHERS	DP S-2	7, 8, 9 & 10
SIGNALS AND INSTRUMENT CASES	DP S-4	11
SINGLE AND DOUBLE-DOOR BOTTOM MECHANISM CASES	DP S-4R	11
INSTRUMENT CASE	DP S-4R (1)	11
ROTATABLE CANTILEVER SIGNAL FOUNDATION	DP S-9-2	12
WALKOUT CANTILEVER FOUNDATION 18', 20', 22' TO 30'	DP S-10-3WS	13, 14, 15, 16, 17, 18
SAFETY BARRICADE	DP 9-9	19
HIGHWAY TYPE TRUSS SIGNAL BRIDGE 60' SPAN	DP S-16x	20, 21, 22
DOUBLE MAST WALKOUT CANTILEVER THROUGH 40' FOUR PART BASE	DP S-19199s	23, 24
FOR SAFETRAN W.N.R. DOUBLE MAST WALKOUT CANTILEVER THROUGH 40' FOUR PART BASE	DP S-2317	25
DWARF SIGNALS		26, 27, 28
INSTRUMENT CASE PIERS	DP AP-392	29, 30
RELAY HOUSE PIERS	DP AP-761	34, 35
RELAY HOUSE PIERS	DP AP-607	32, 33
JUNCTION BOX POST		31
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#2 BATTERY BOX BOX 16 CELL		38

INDEX

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ITEM	ITEM #	PAGE
#2 BATTERY BOX INTERIOR		39
#5 BATTERY BOX 6 CELL.		40

DIXIE PRECAST, INC.
4170 ANGELETTE DRIVE AUSTELL, GEORGIA 30001
(404) 944-1930

SPECIFICATIONS FOR PRECAST CONCRETE RAILROAD FOUNDATIONS

ITEM 1. Cement type I or type III ASTM C 150

ITEM 2. Coarse aggregate No. 7 size, crushed granite.
Fine aggregate, quartz silica sand.

ITEM 3. Water ratio for 3 inch to 4 inch maximum slump.

ITEM 4. Air entrainment of 4% to 5%.

ITEM 5. All products to be cast in rigid steel molds, vibrated enough to consolidate around steel reinforcing without aggregate seperation.

ITEM 6. Minimum strength in 28 days 4,500 PSI to 5,000 PSI.

ITEM 7. Reinforcing steel, grade 40 ASTM A 615

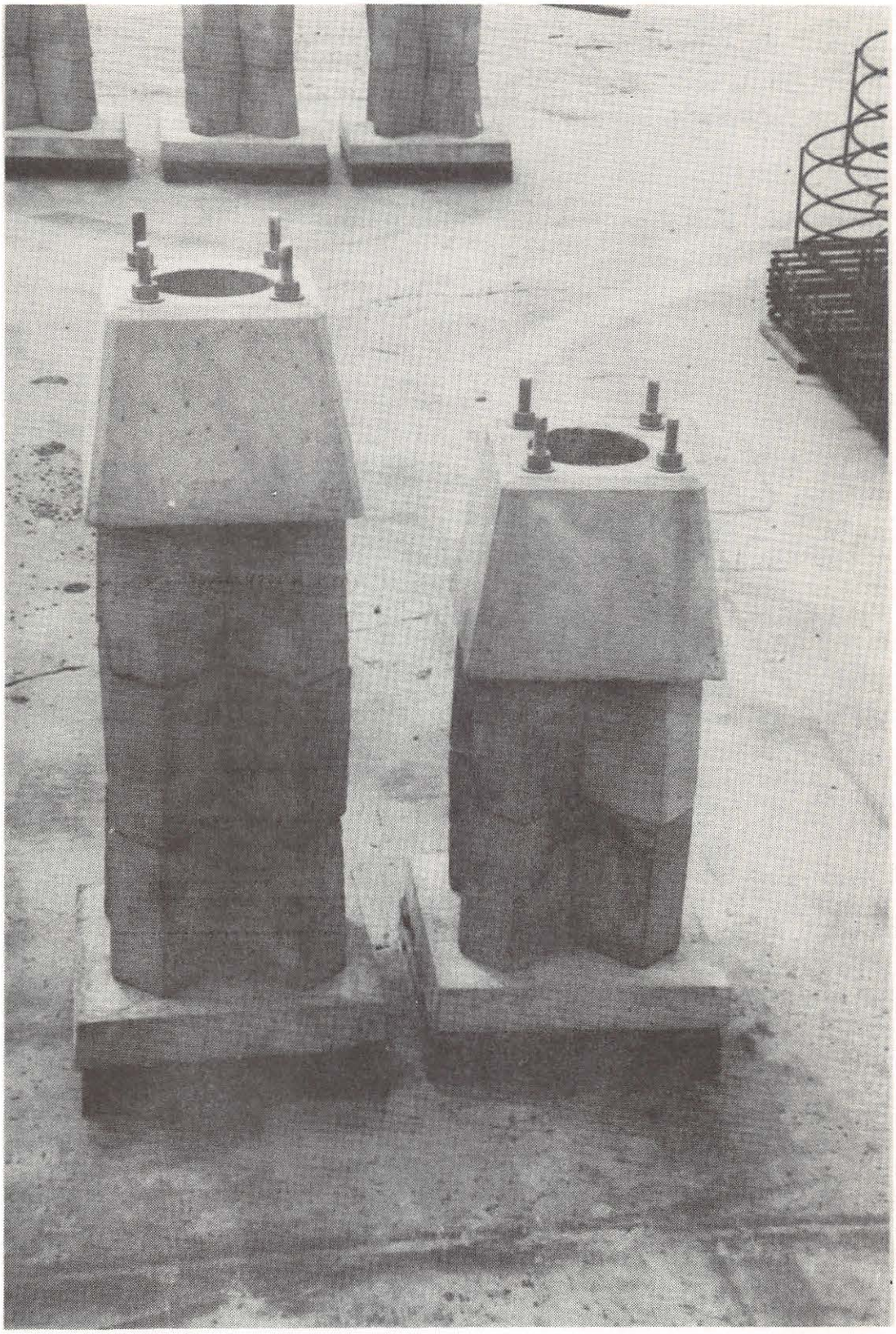
ITEM 8. Sectional Foundation bolts are hot rolled, bolts, nuts and washers are Merchant and Special Quality ASTM A 307. Tensil 60,000 PSI, yield 36,000 PSI, with galvanizing per ASTM A 123 or 153.

ITEM 9. Water reducing additive may be used.

ITEM 10. Calcium chloride is not to be used under any conditions.

ITEM 11. All reinforcing steel to be pre fabricated and shop welded to insure proper spacing and placement of all mats and donut baskets.

ITEM 12. Manufacturer must be able to provide engineering verification that his product will meet all Railroad Design requirements or exceed same.



DP S-1

9-1/2" X 9-1/2" Bolt spacing Base 22" X 22". Available in 3'6", 4'6", 5' 6". For crossing highway flasher, cable post with 4" mast. Complete with four 1" galvanized bolts, nuts and washers.

BRI
5/22/91

DIXIE PRECAST, INC.

4170 ANGELETTE DRIVE AUSTELL, GA. 30001
(404) 944-1930

MANUFACTURERS OF PRECAST CONCRETE
SINCE 1947

F.O.B.
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4170 ANGELETTE DR.
AUSTELL, GA. 30001
404-944-1930

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	5'-6"	990							
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11-11/16" bolt space	5'-6"	1500	670-250879	020-2060060-1	02208252		330027-T02157		020-2060060-1
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INDEX

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INDEX

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ITEM	ITEM #	PAGE
#2 BATTERY BOX INTERIOR		39
#5 BATTERY BOX 6 CELL.		40

DIXIE PRECAST, INC.
4170 ANGELETTE DRIVE AUSTELL, GEORGIA 30001
(404) 944-1930

SPECIFICATIONS FOR PRECAST CONCRETE RAILROAD FOUNDATIONS

ITEM 1. Cement type I or type III ASTM C 150

ITEM 2. Coarse aggregate No. 7 size, crushed granite.
Fine aggregate, quartz silica sand.

ITEM 3. Water ratio for 3 inch to 4 inch maximum slump.

ITEM 4. Air entrainment of 4% to 5%.

ITEM 5. All products to be cast in rigid steel molds, vibrated enough to consolidate around steel reinforcing without aggregate seperation.

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ITEM 9. Water reducing additive may be used.

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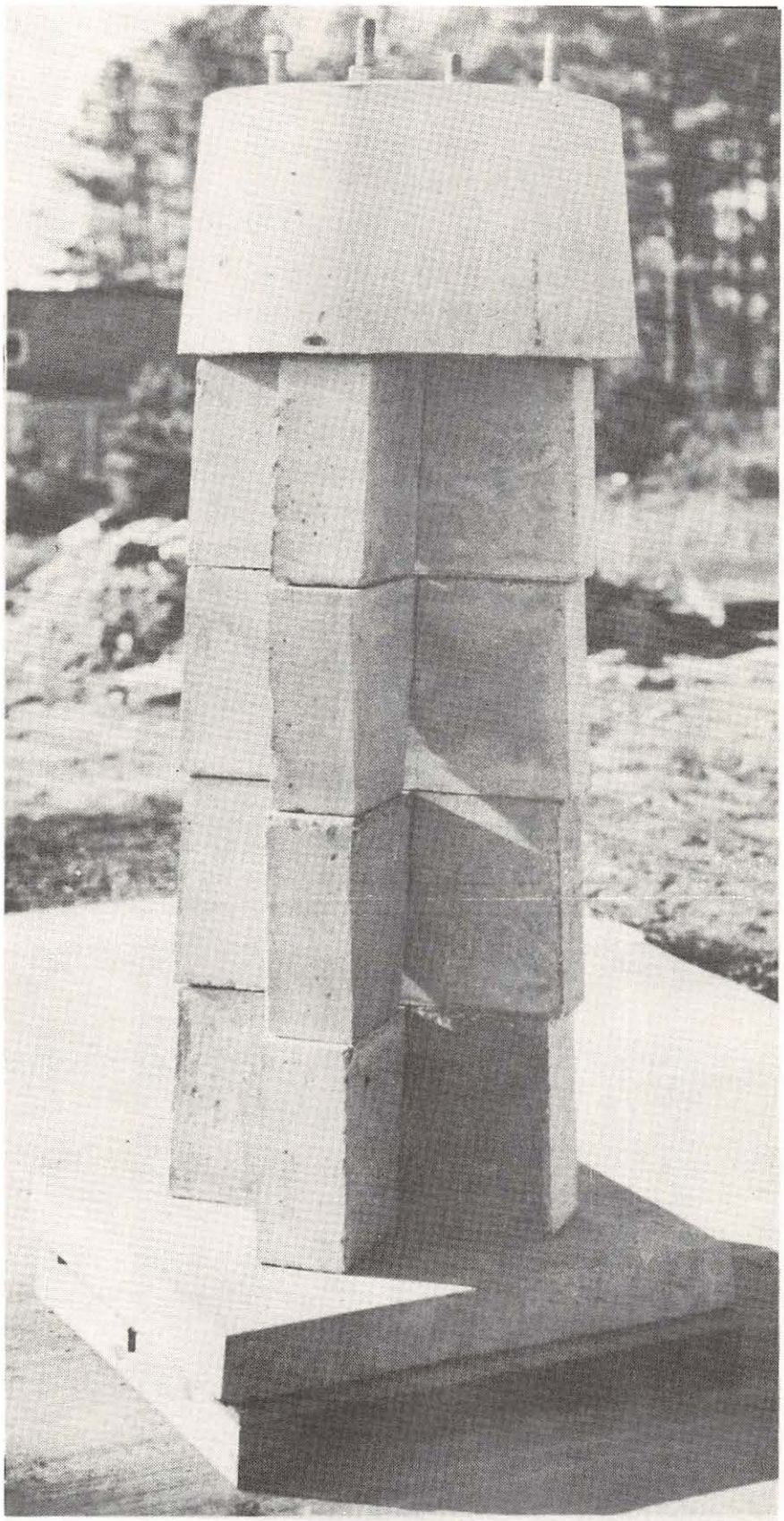
ITEM 11. All reinforcing steel to be pre fabricated and shop welded to insure proper spacing and placement of all mats and donut baskets.

ITEM 12. Manufacturer must be able to provide engineering verification that his product will meet all Railroad Design requirements or exceed same.

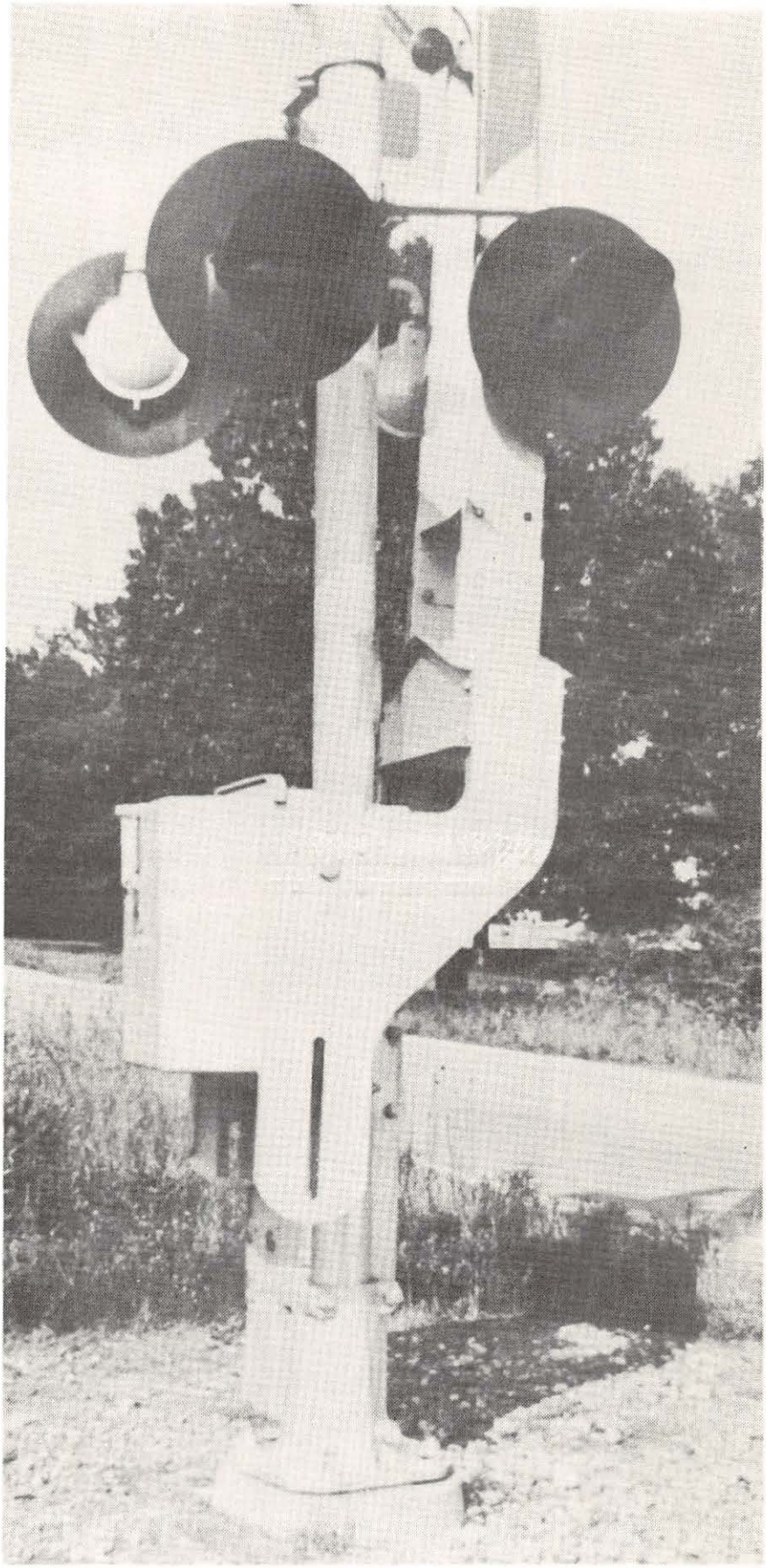
DP S-1

9-1/2" X 9-1/2" Bolt spacing Base 22" X 22". Available in 3'6", 4'6", 5' 6". For crossing highway flasher, cable post with 4" mast. Complete with four 1" galvanized bolts, nuts and washers.



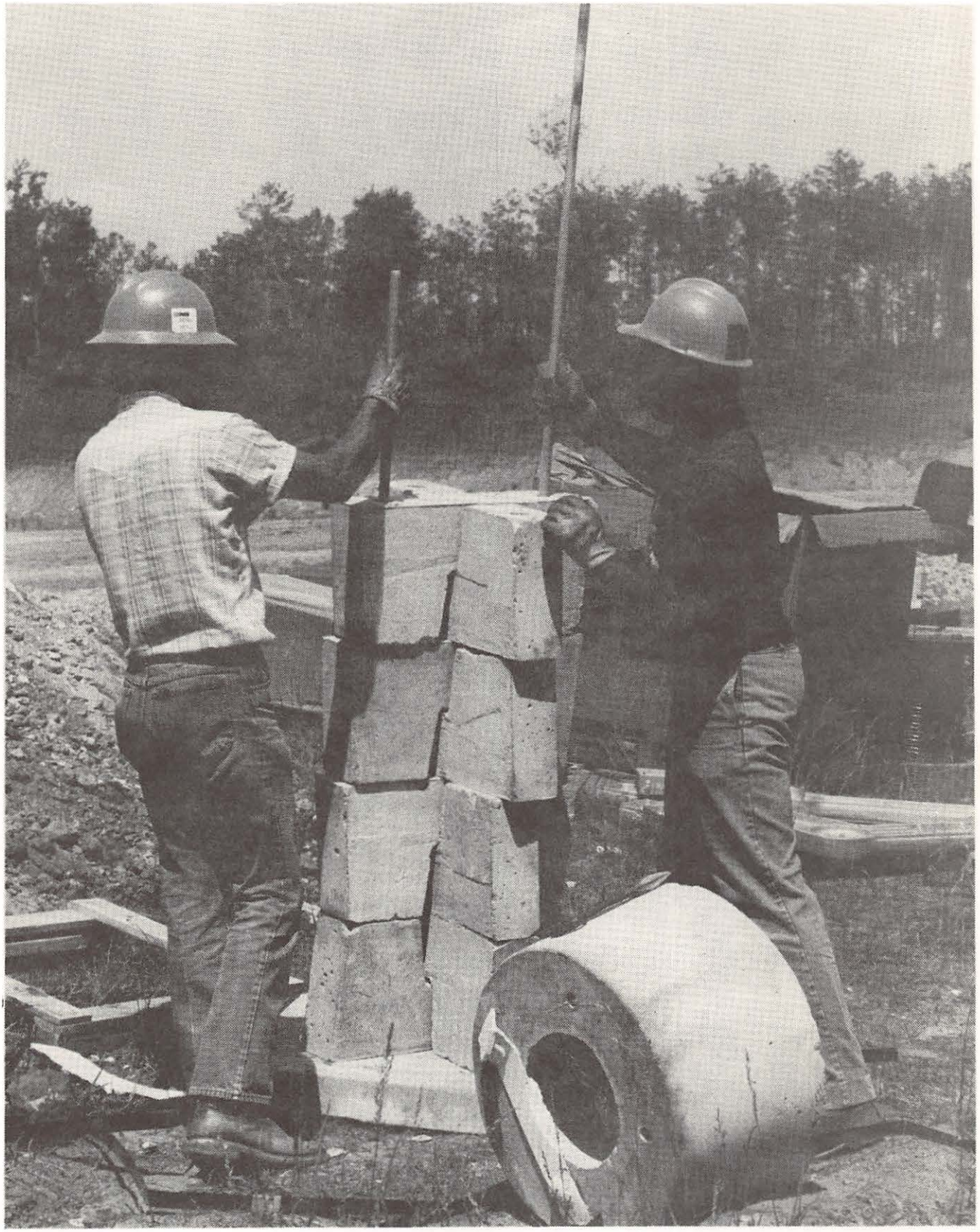
DP S-2

11-11/16 X 11-11/16 Bolt Spacing Base 30" X 30". Available in 4'6", 5'6", 6'6". For Ground Signals, Cantilever Highway Crossing Flashers. With 4, 5, or 6"Mast Complete With Form 1" Galvanized Bolts, Nuts and Washers.



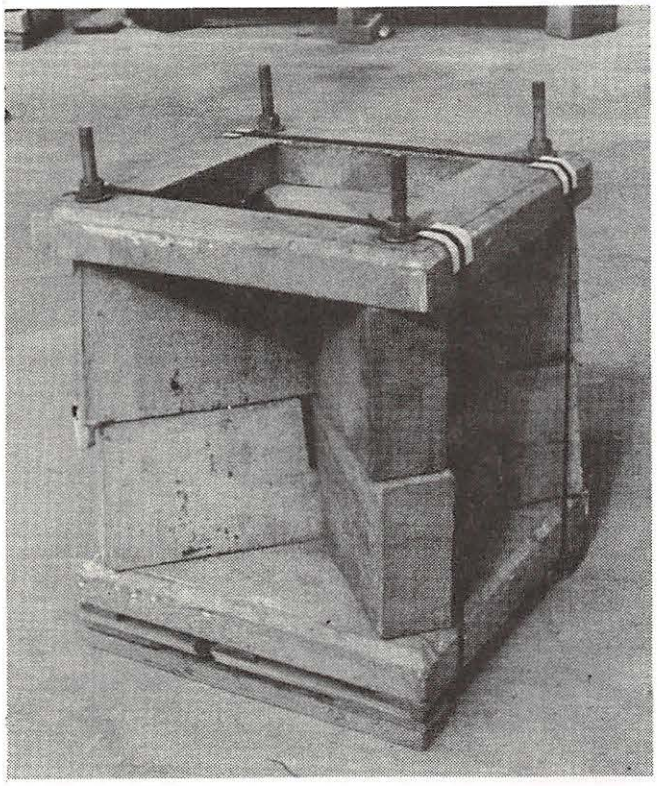
DP S-2
Installed

DP S-2
Installed



DP S-2
Being Assembled

DIXIE PRECAST, INC.
4170 ANGELETTE DRIVE AUSTELL, GEORGIA 30001
(404) 944-1930



DP S-4

DP S-4 R Foundation
21" X 25-1/2"
1" Galv, Bolts
Bolt Spacing

For US & S CO single and double-door bottom mechanism cases. Available in 2'-7", 3'-7", 4'-7", 5'-7", 6'-7", 7'-7".

DP S-4 R (1) Foundation
22" X 25"
1" Galv. Bolts
Bolt Spacing

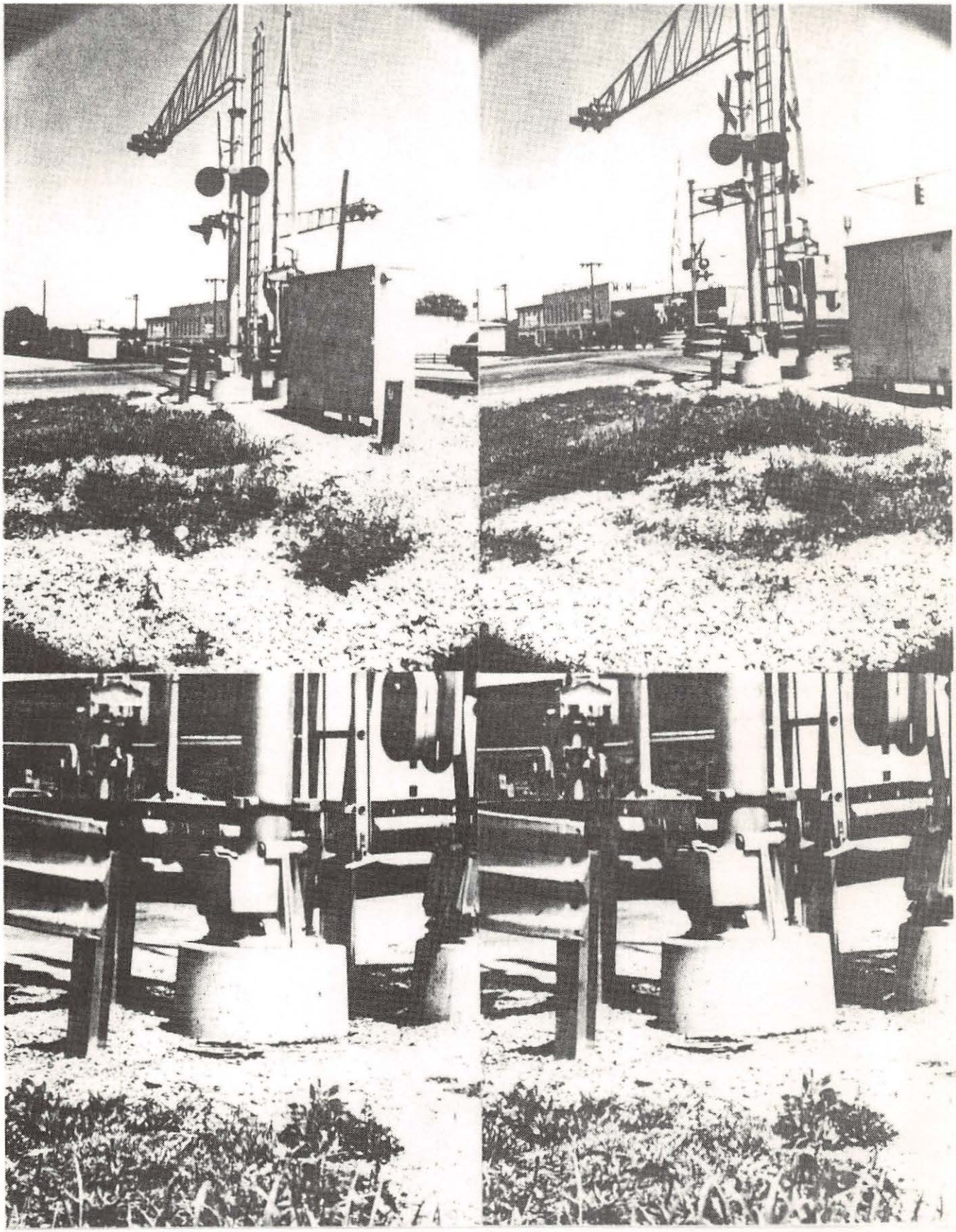
Instrument Case bolt spacings. Specify bolt centers and height desired. Available in 2'-7", 3'-7", 4'-7", 5'-7", 6'-7", 7'-7".

DP S-4 Foundation
23-7/8" X 23-7/8"
1" Galv. Thru Bolts
Bolt Spacing

Used with railroad signals and instrument cases for A.A.R. signal adapter 1387. Supplants A.A.R. signal foundation no. 1259 C.

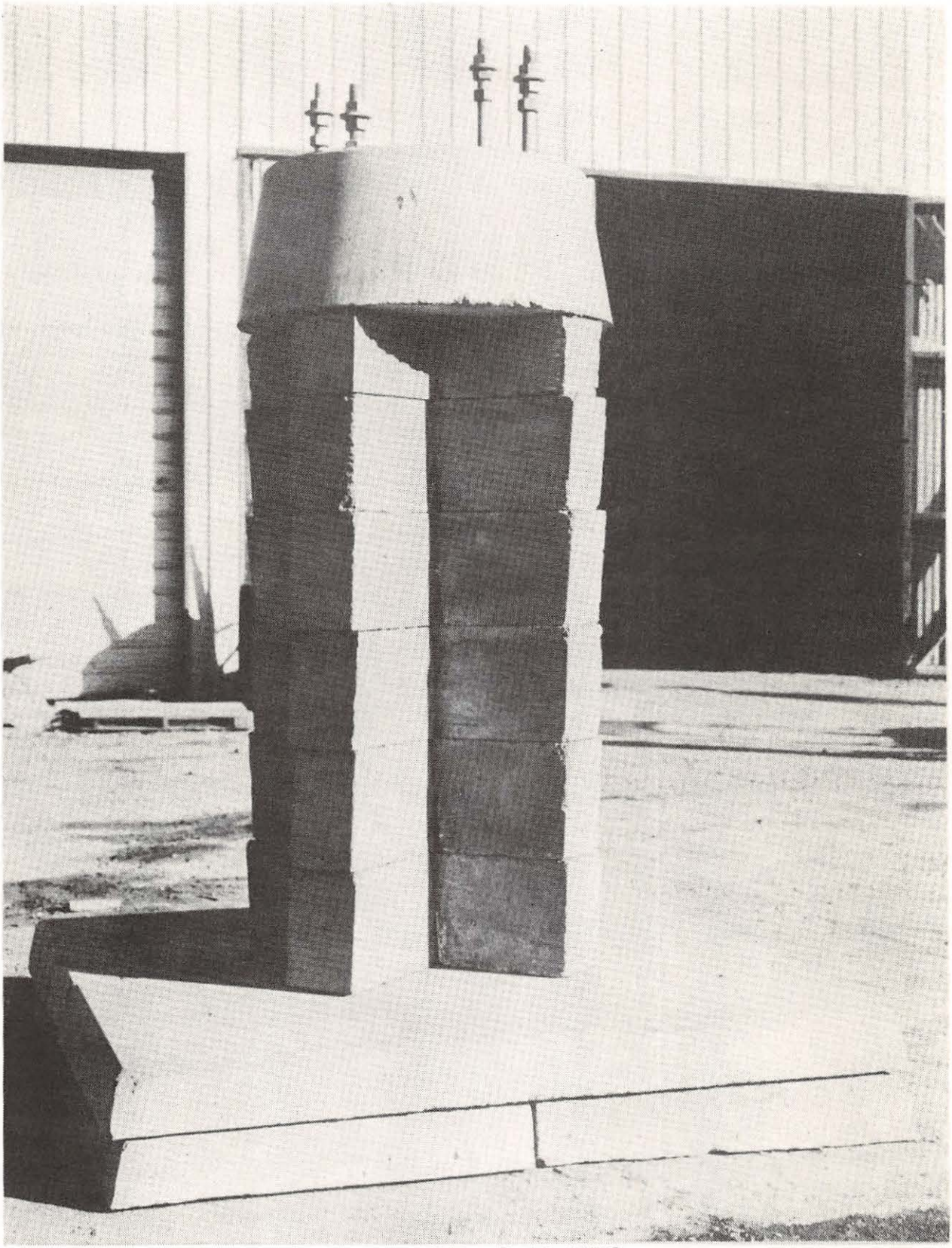
To support A.A.R. signal base no. 1626 B, 1627 B, and signal adapter 1387.

Available in the following heights, 2'-7", 3'-7", 4'-7", 5'-7", 6'-7", 7'-7".



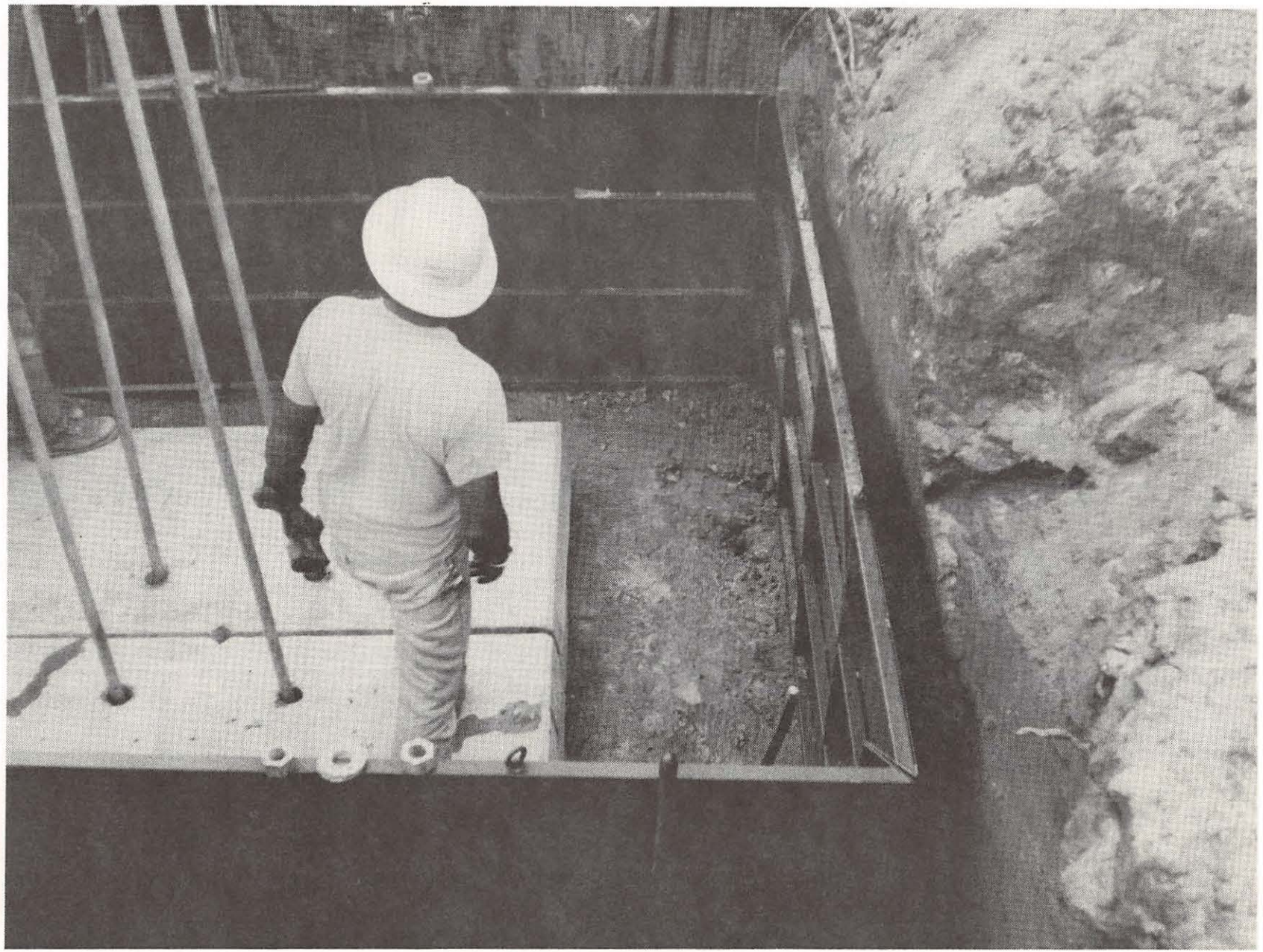
DP S-9-2

11-11/16 X 11-11/16 Bolt spacing Base 48" X 48". Height 6'8" or 7'8". Rotatable cantilever signal foundation. Complete with form 1" galvanized bolts, nuts and washers.



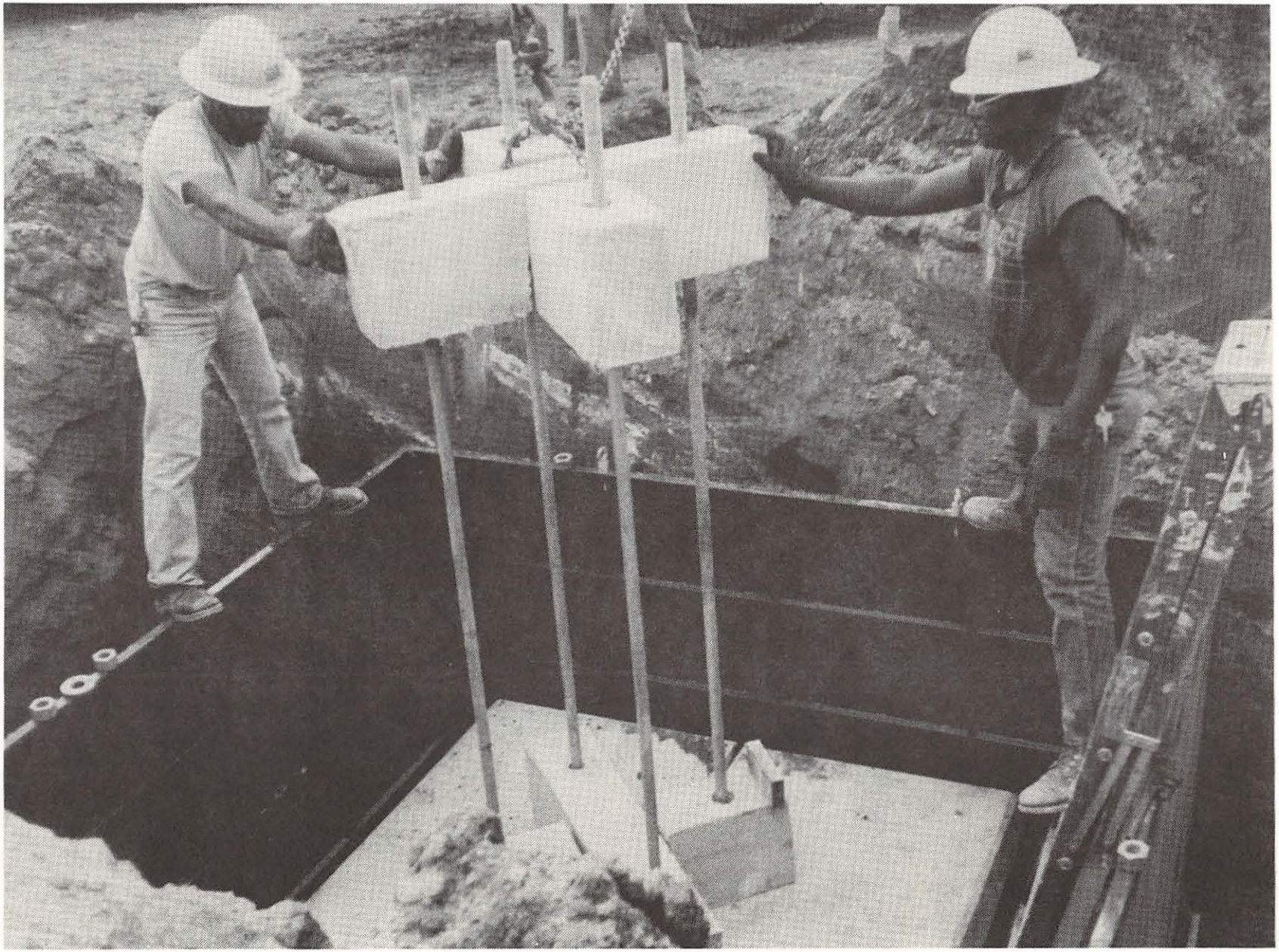
DP S-10-3WS

19" X 19" Bolt spacing 4-Part Base 6'6" X 6'6". Height 8'5" Walkout Cantilever foundation 18', 20', 22' to 30'.



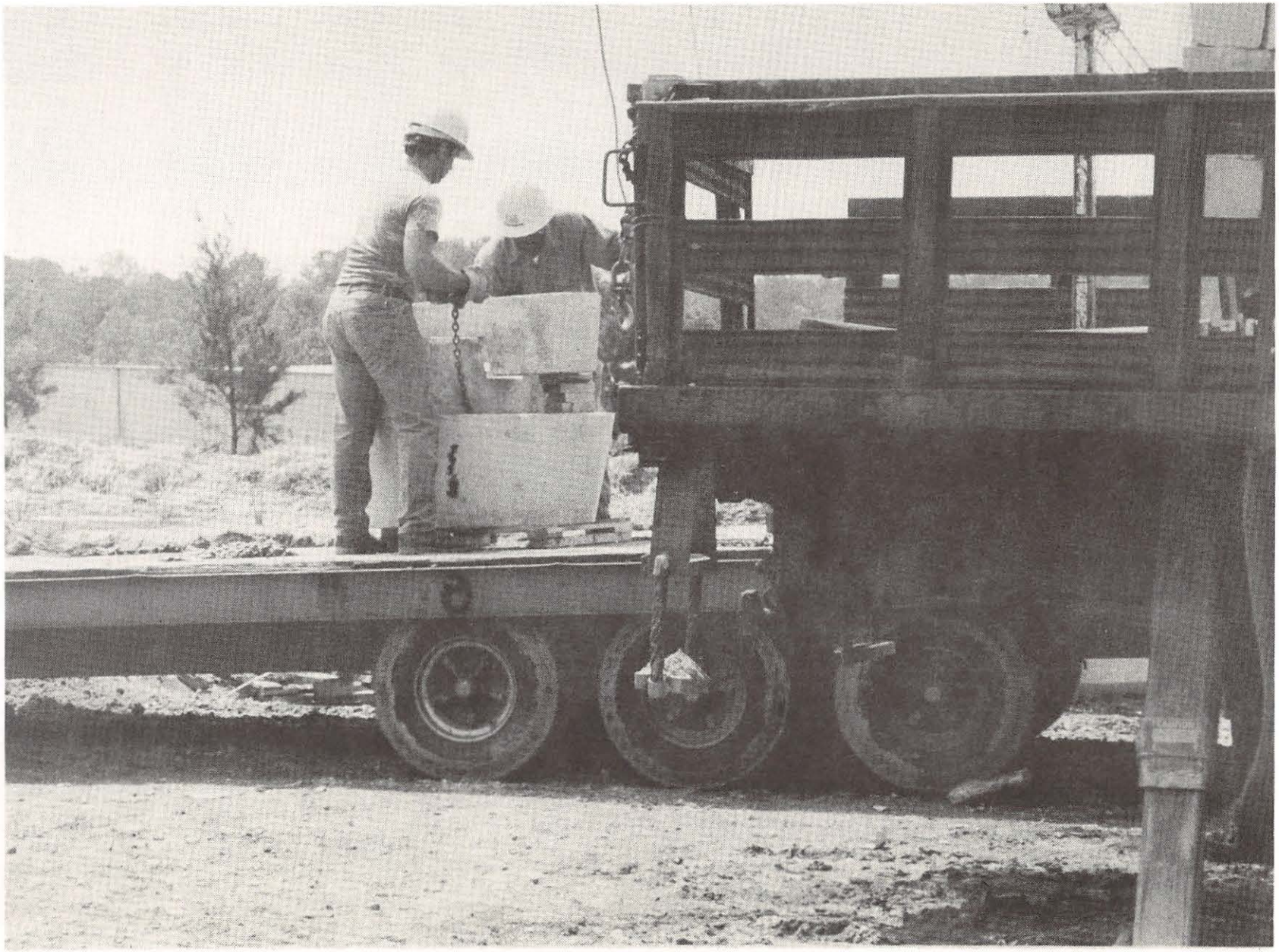
DP S-10-3WS

Cantilever base being installed. Height 8'5", Hole dug 10' X 10'



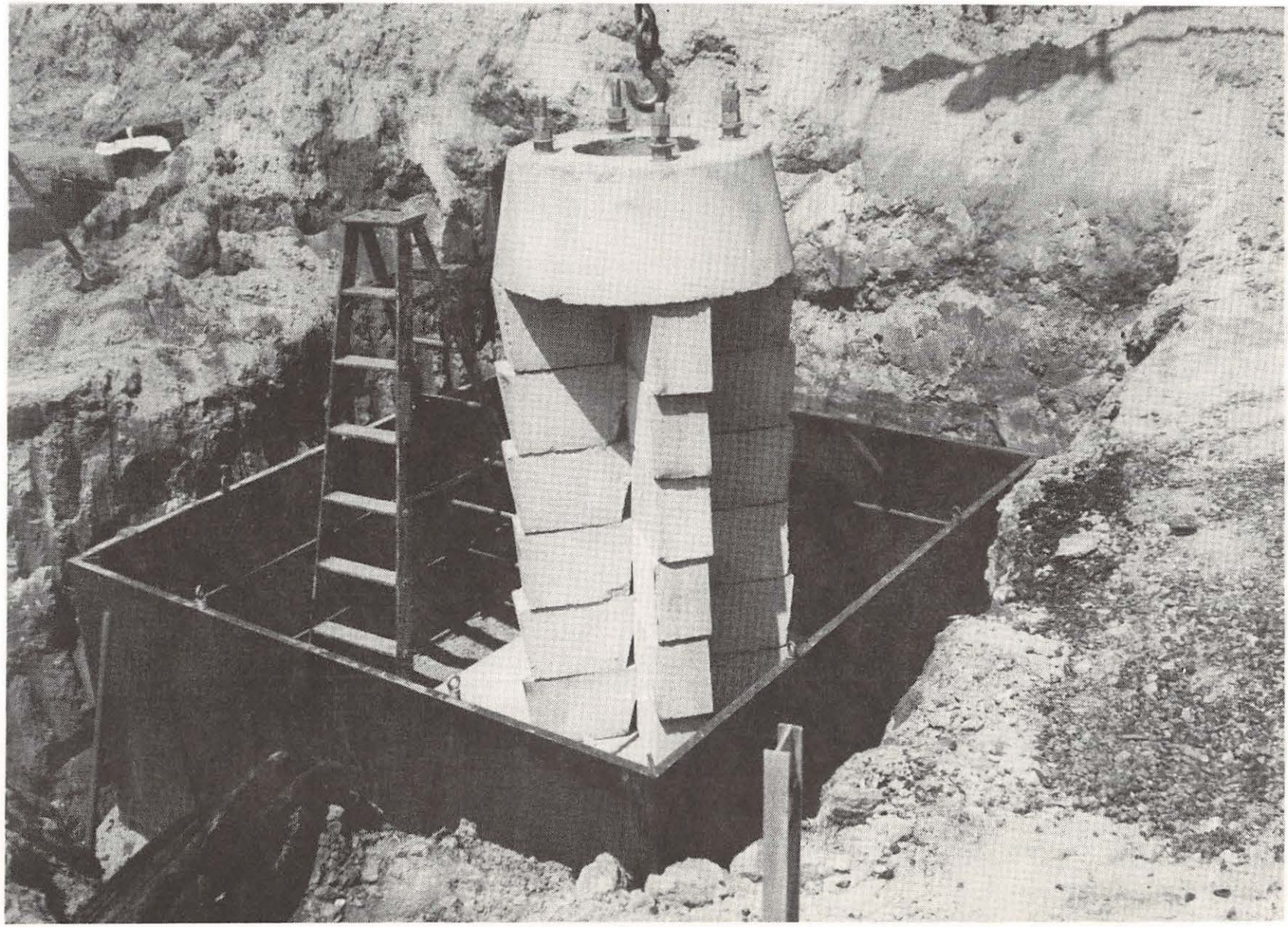
DP S-10-3 WS

Cantilever spiders being installed.



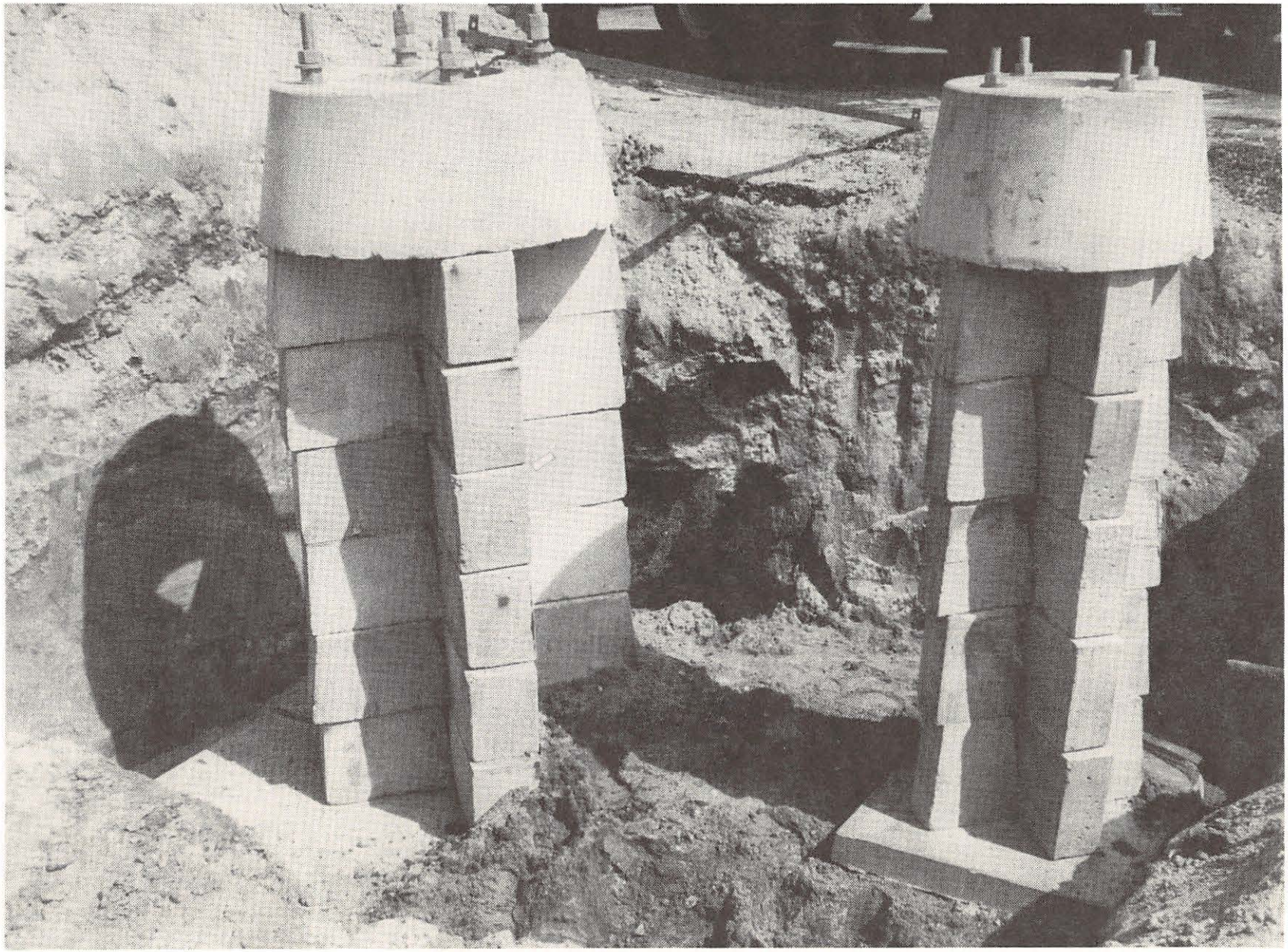
DP S10-3WS

Cantilever spiders being assembled.



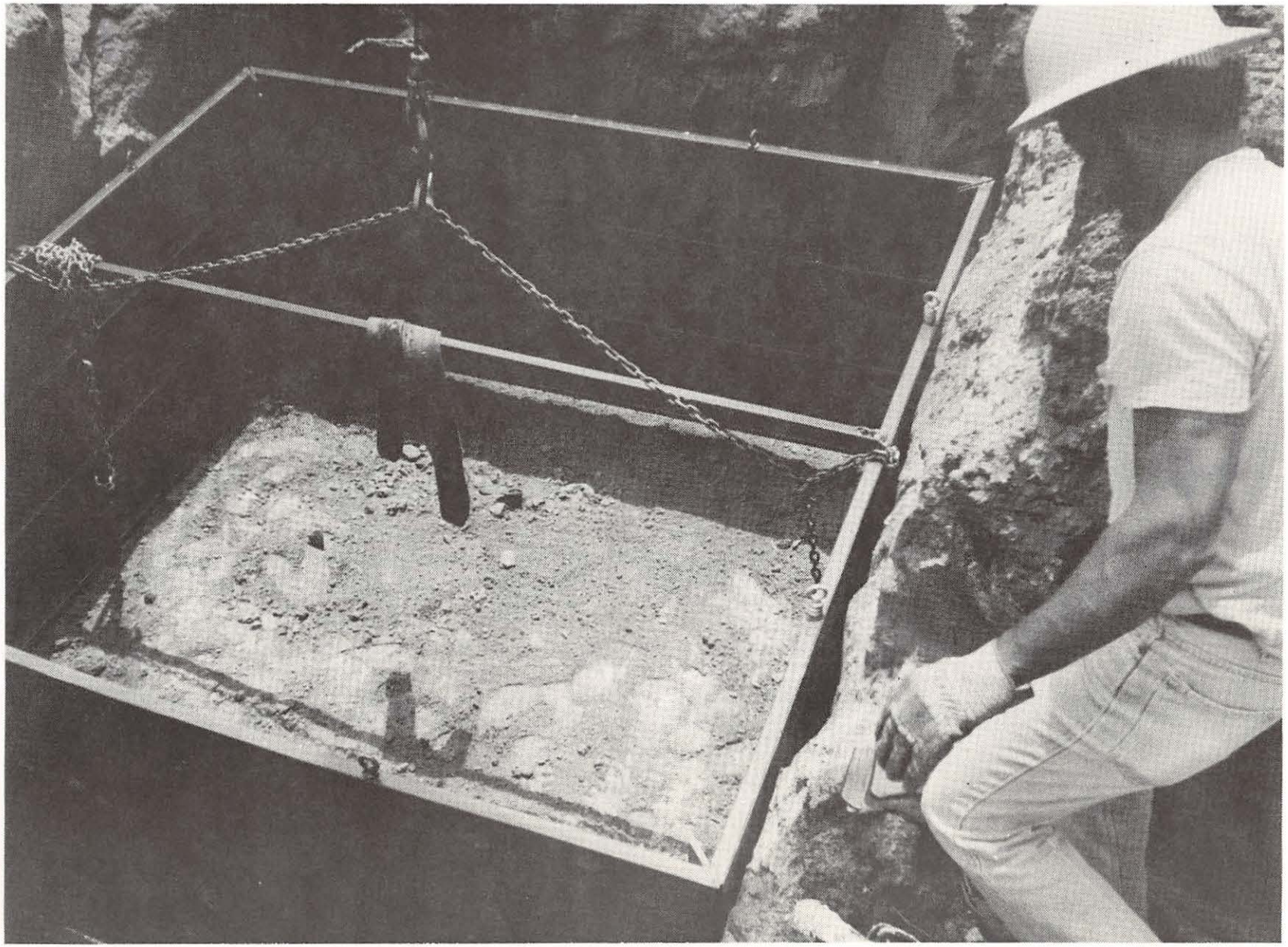
DP S-10-3WS

Assembled in place using our steel safety barricade.



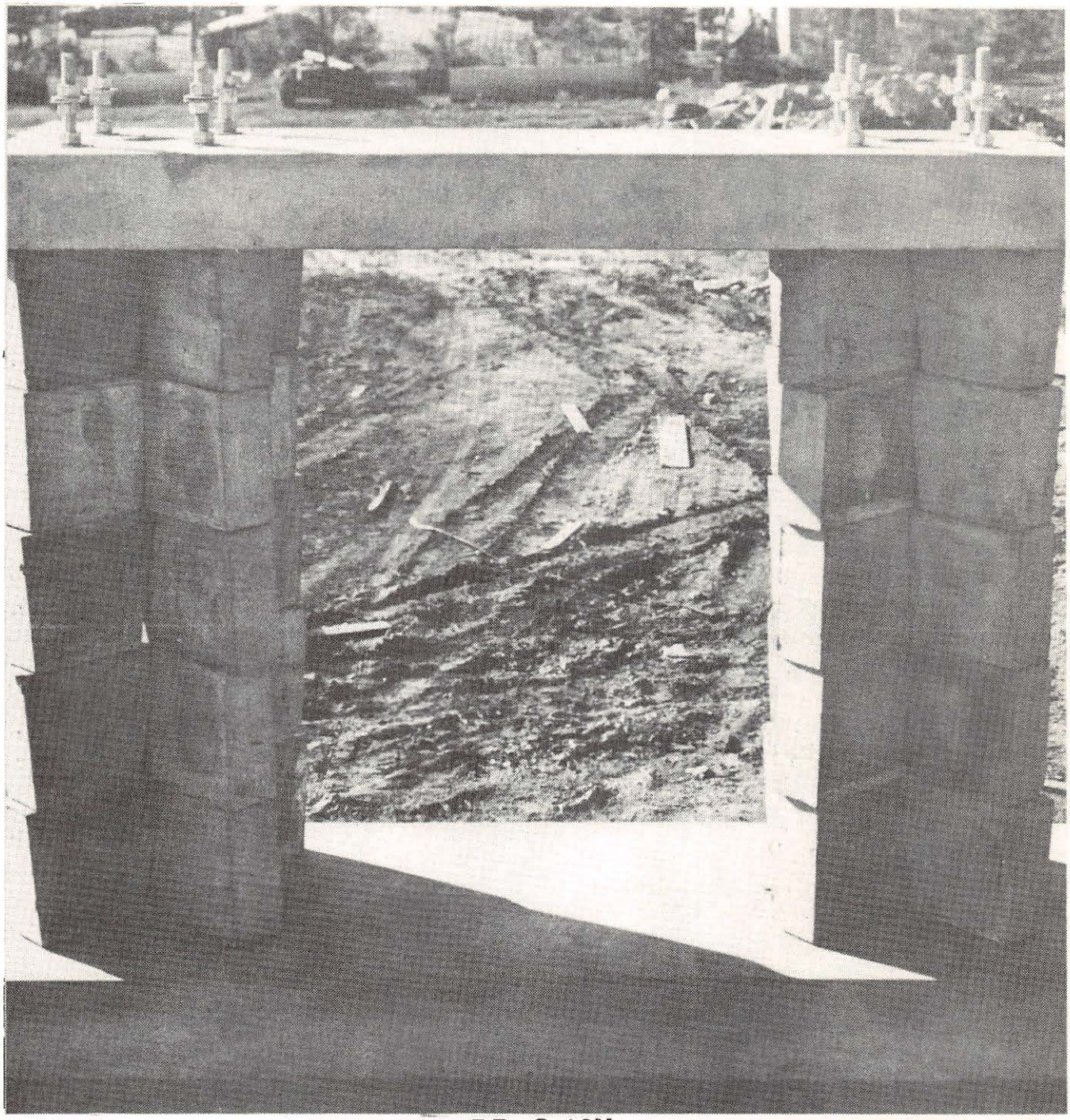
DP S-10-3WS and DP S-2

8'5" 6'6"



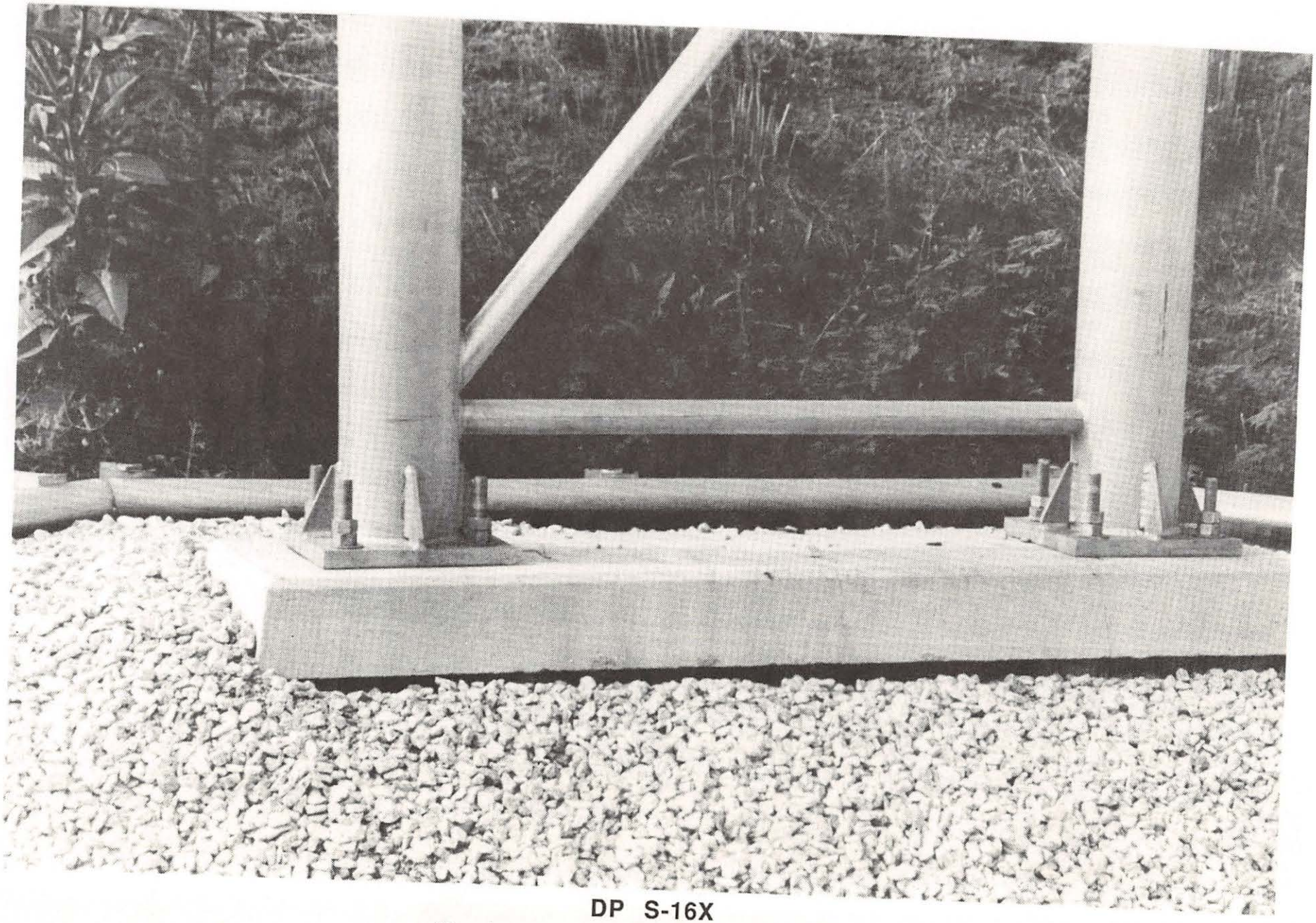
DP 9-9 Safety Barricade

9' sq X 4' high steel safety barricade to prevent injury from cave in.



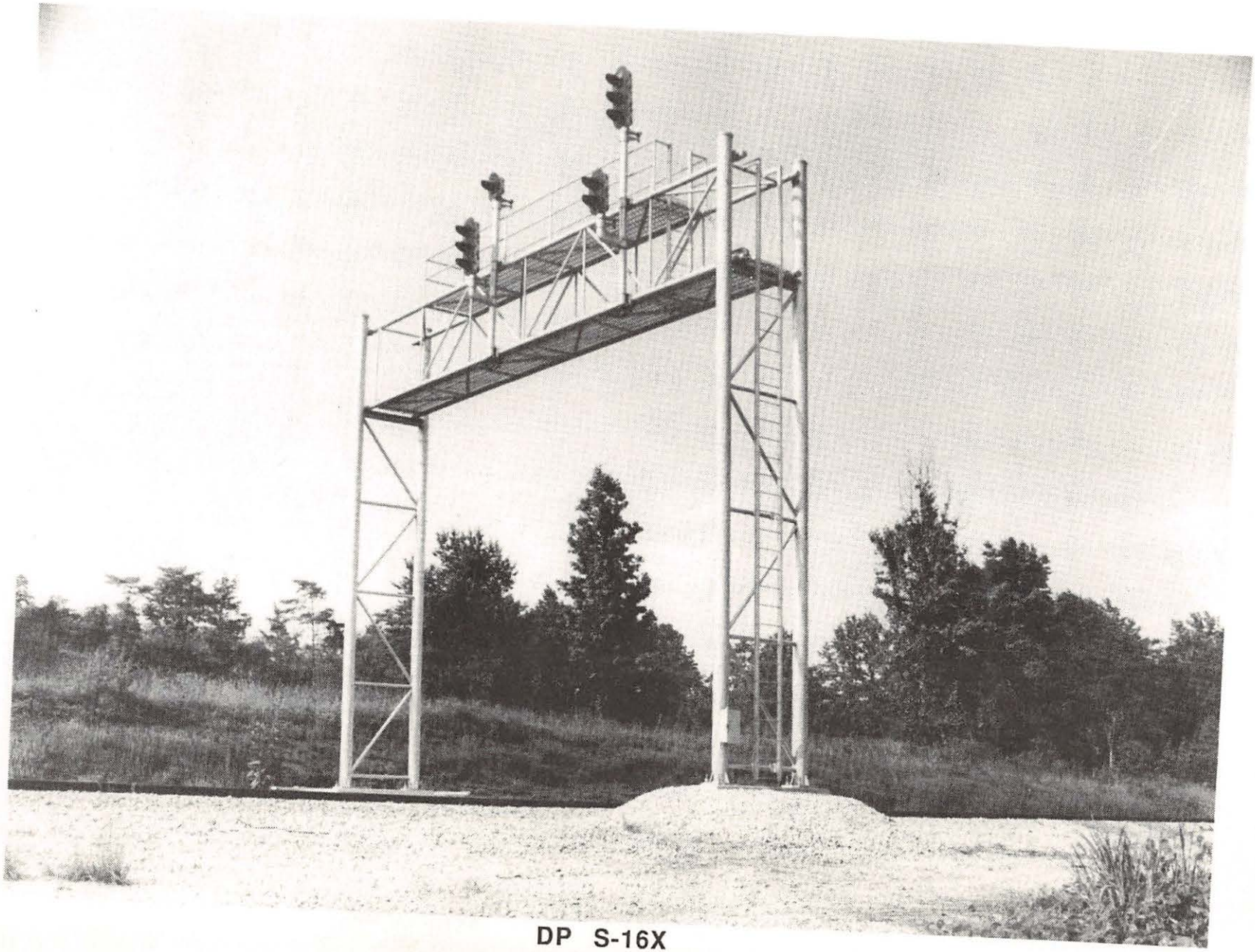
DP S-16X

11-5/16 X 11-5/16 Bolt spacing spaced at 5'7" center line to center line of bolts. Base 3'-0" X 9'-2". Height 6'-4". Highway type truss signal bridge 60' span with 8 1-1/4" X 81" galvanized bolts, nuts and washers.

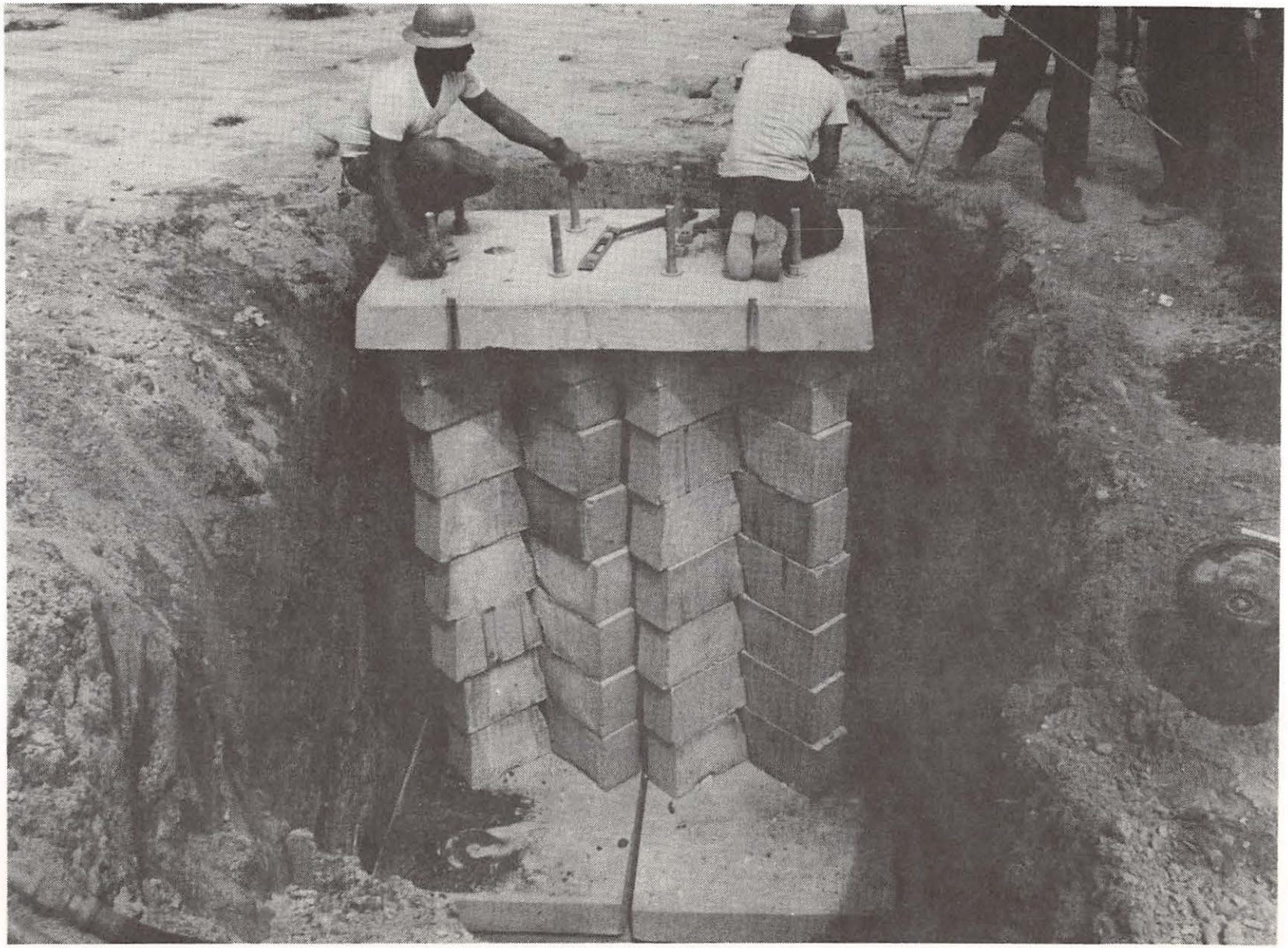


DP S-16X

Showing top of unit after installation.

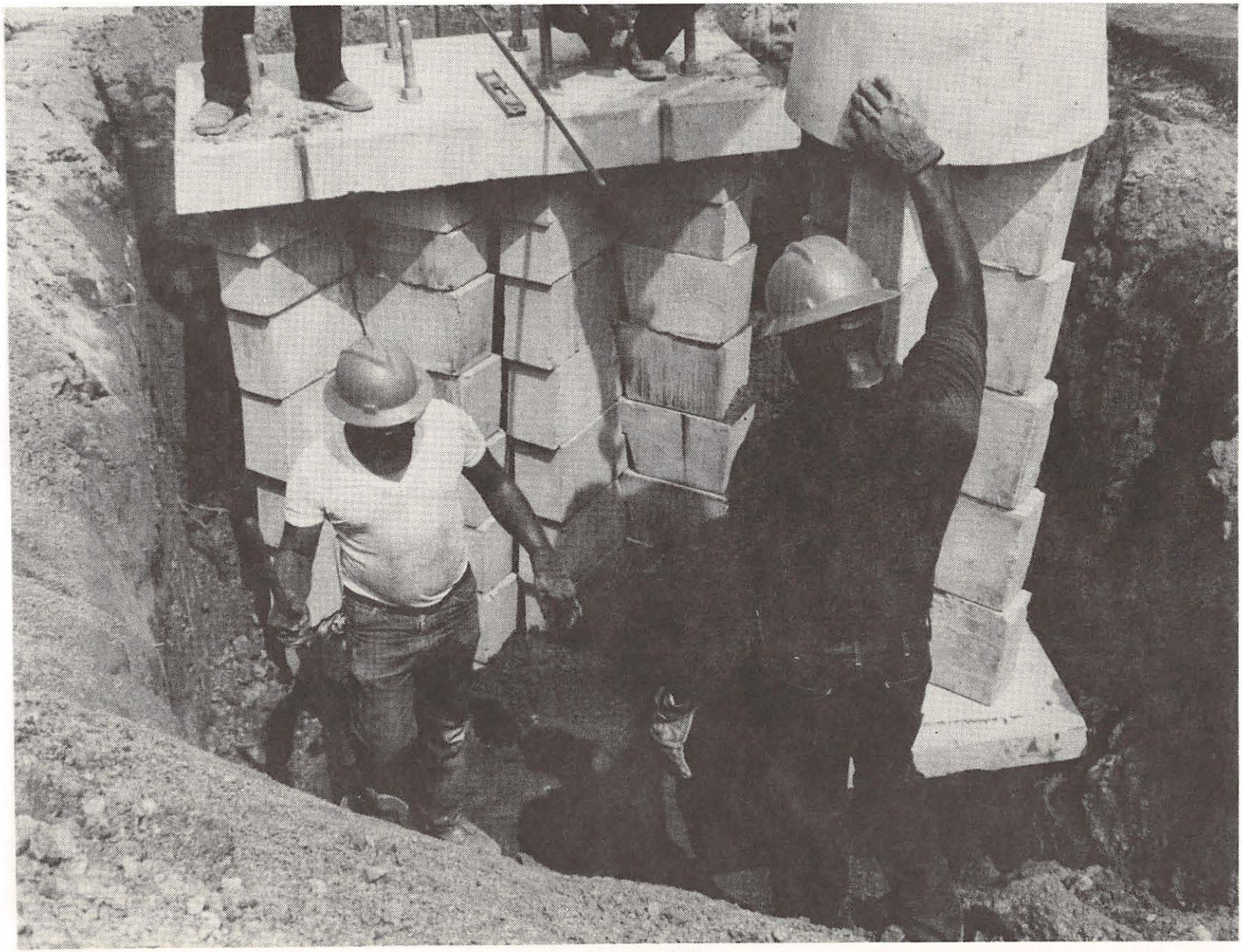


DP S-16X
Completely installed.

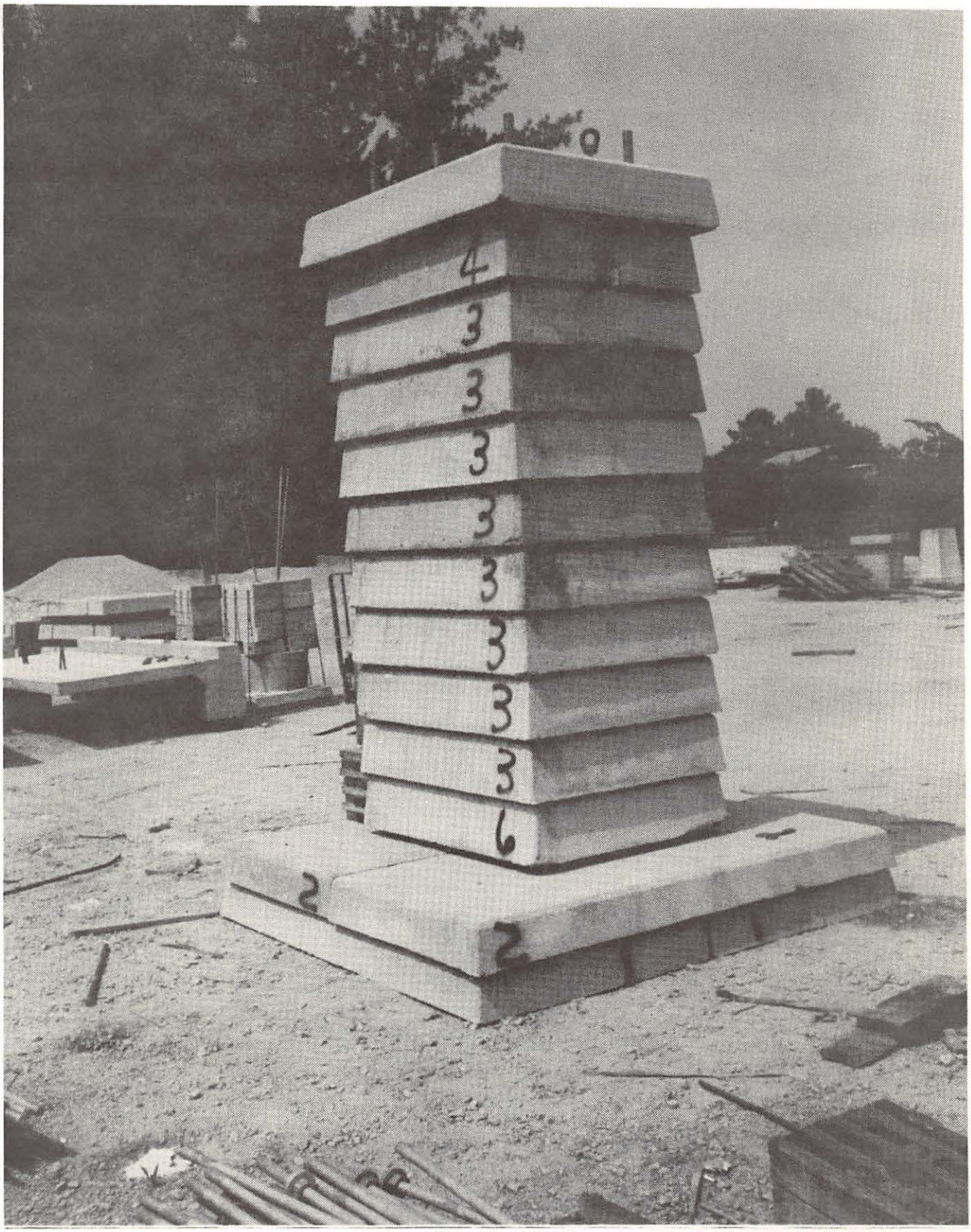


DP S-19199s

Double mast walkout cantilever thru 40', four part base. 19" X 19" Bolt spacing. Height 9'-2". Base 7'-6" X 7'-6" complete with 8 1-1/2" galvanized bolts, nuts and washers.

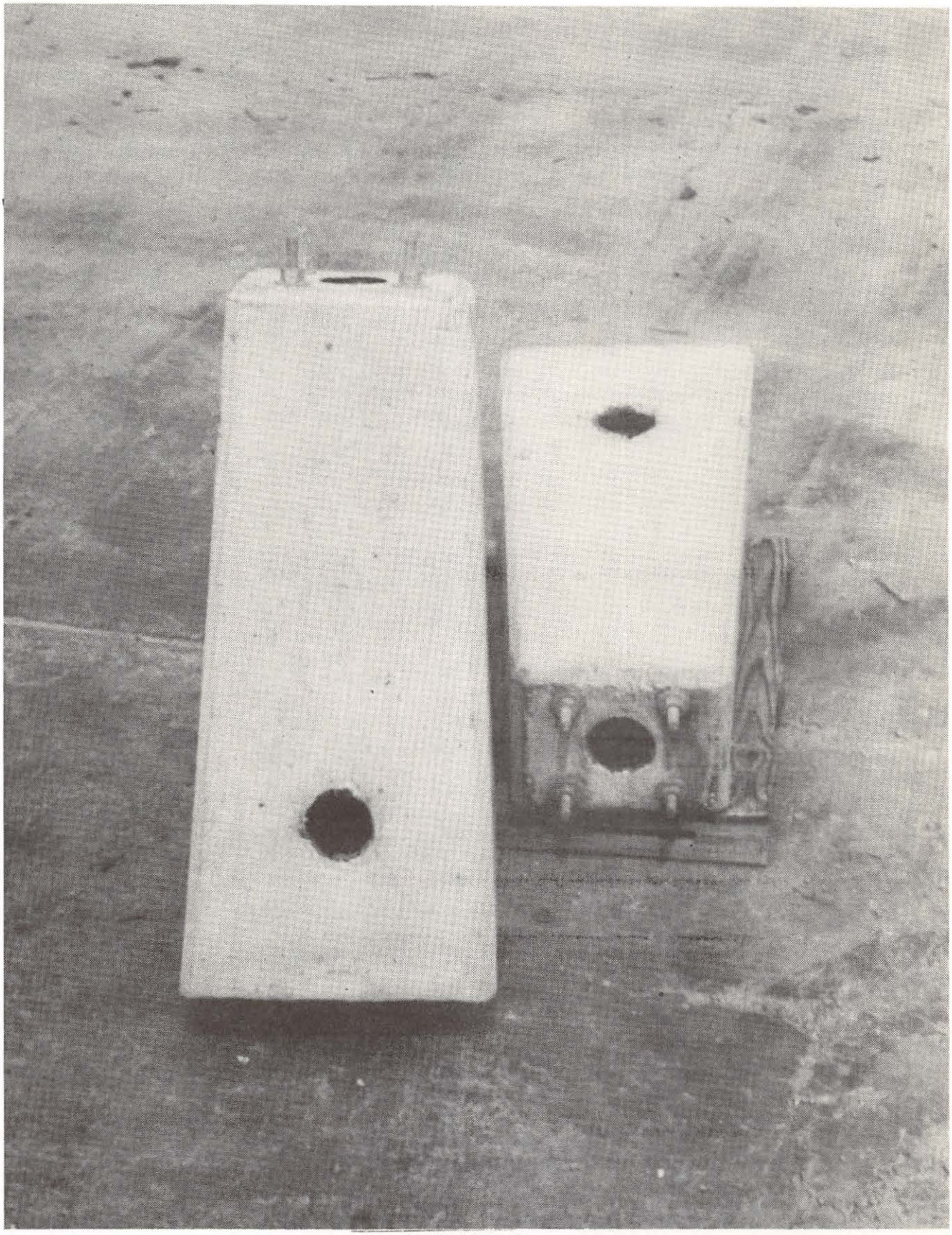


DP S-19199s
Being installed with a DP S-2.



DP S-2317

Double mast walkout cantilever for Safetran W.N.R. with four part base. 23" X 17" X 17" Bolt spacing. Base 6'-6" X 6'-6" Height 9'-2". Complete with six 1-1/2" galvanized bolts, nuts and washers.



DP H112
Dwarf Signal

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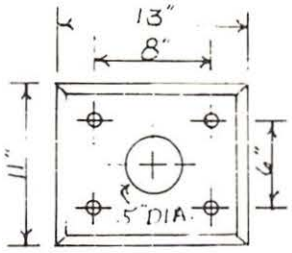
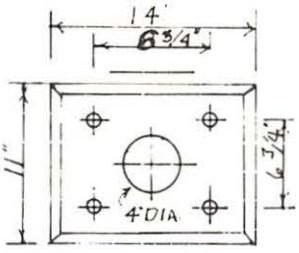


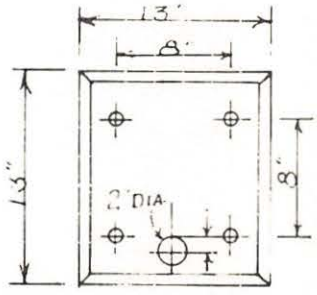
DPH-11

HEIGHT 3'6"
FOR US&S ES-10 SWITCH LAMP PLATE B-3500 OR G.R.S. TYPE "P" SWITCH SIGNAL PLATE 2801 FOUR 3/4" GALV. BOLTS, NUTS & WASHERS.



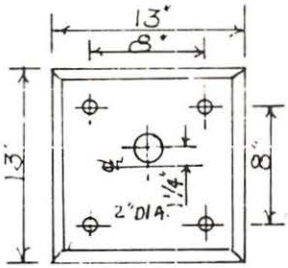
DPH-112

HEIGHT 3'6"
FOR G.R.S. TYPE "FA" COLORLIGHT DWARF SIGNAL PLATES H-2409 & 2411 FOUR 3/4" GALV. BOLTS, NUTS & WASHERS.



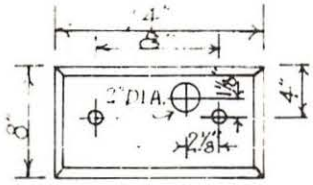
DPH-133

HEIGHT 2'6"
CABLE ENTRANCE 5" OFF CENTER & SLOPES IN. WITH FOUR 3/4" GALV. BOLTS, NUTS & WASHERS.



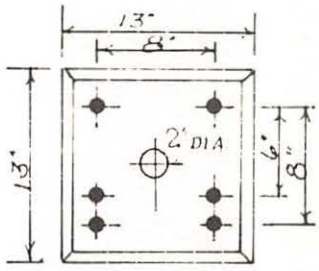
DPH-131

HEIGHT 2'6"
FOR SEARCHLIGHT, "SA" SIGNALS. WITH FOUR 3/4" GALV. BOLTS, NUTS & WASHERS.



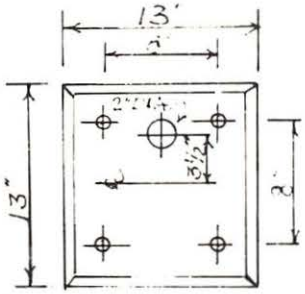
DPH-12

HEIGHT 3'0"
FOR US&S CO. TYPE "N" & "N-2" COLOR LIGHT SIGNAL. WITH TWO 3/4" GALV. BOLTS, NUTS & WASHERS. (some models of n-2 require 5/8" bolts, request if required)



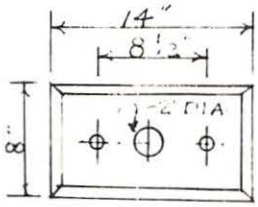
DPH-135

HEIGHT 3'6"
3/4" INSERTS FOR 6"X8" OR 8"X8" SPACING. USED FOR CABLE POST & DWARF SIGNALS. FOUR 3/4" GALV. BOLTS, NUTS & WASHERS.



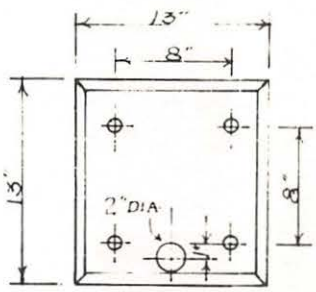
DPH-132

HEIGHT 3'6"
FOR US&S CO. TYPE H-5 WITH FOUR 3/4" GALV. BOLTS, NUTS & WASHERS.



DPH-121

HEIGHT 3'0"
FOR DWARF SIGNAL GRS COLORLIGHT STYLE "ME" WITH TWO 3/4" GALV. BOLTS, NUTS, & WASHERS.



DPH-134

HEIGHT 3'6"
CABLE ENTRANCE 5" OFF CENTER & SLOPES IN. WITH FOUR 3/4" GALV. BOLTS, NUTS & WASHERS.

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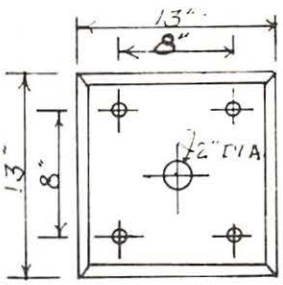
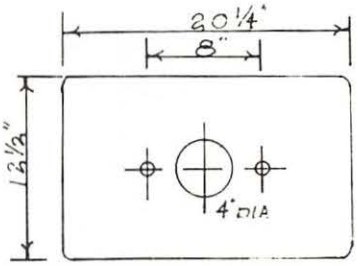


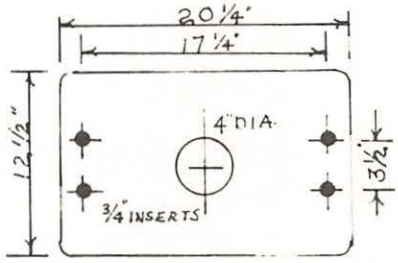
DPH-13

HEIGHT 2'6
FOR SEARCHLIGHT, "SA" SIGNALS. WITH FOUR 3/4" GALV. BOLTS, NUTS & WASHERS.



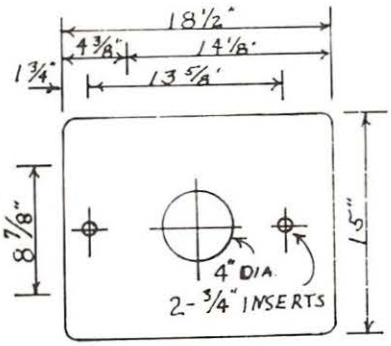
DPH-14

HEIGHT 2'6"
FOR TYPE "N" & "N2" COLORLIGHT FOR "TN" & "TN-2" BOLT SPACING IS 12" C-C, ALSO FOR E 0943 CASE. TWO 3/4" GALV. BOLTS, NUTS & WASHERS.



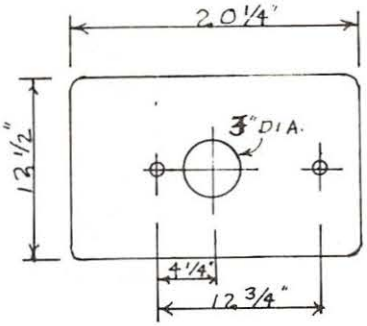
DPH-141

HEIGHT 2'6"
FOR POSITION LIGHT DWARF SIGNAL. US&S CO, PLATE B2425 OR GRS PLATE 3105 FOUR 3/4" GALV, CAP SCREWS.



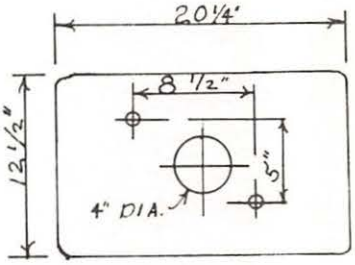
DPH-15

HEIGHT 2'6"
FOR US&S CO. PLATE C 2771 TWO 3/4" GALV. BOLTS, NUTS & WASHERS.



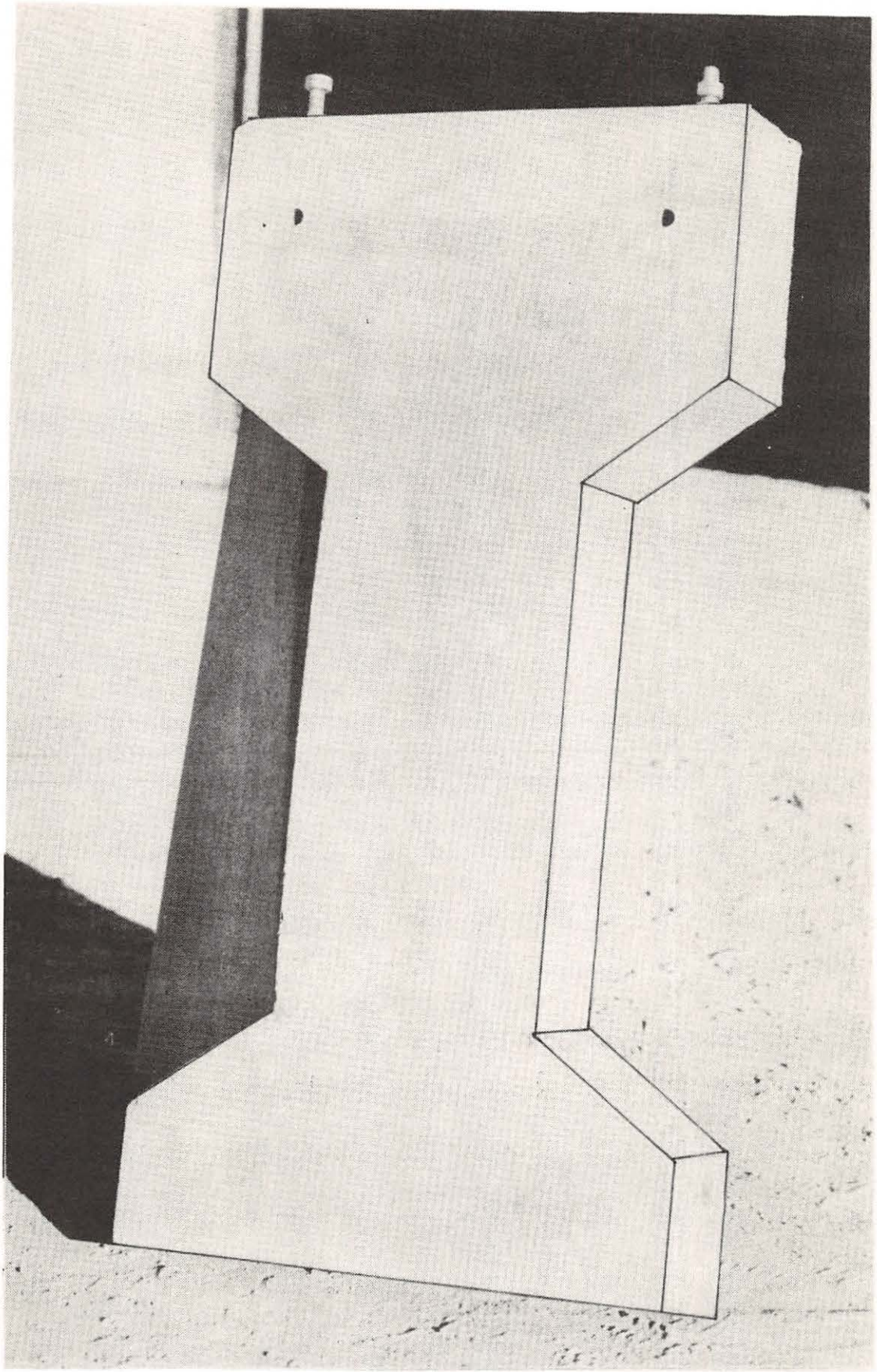
DPH-143

HEIGHT 2'6"
FOR US&S CO. 12-3/4" C-C. ELECTRIC SWITCH LAMP 20, PLAN B-3510. TWO 3/4" GALV. BOLTS, NUTS & WASHERS.



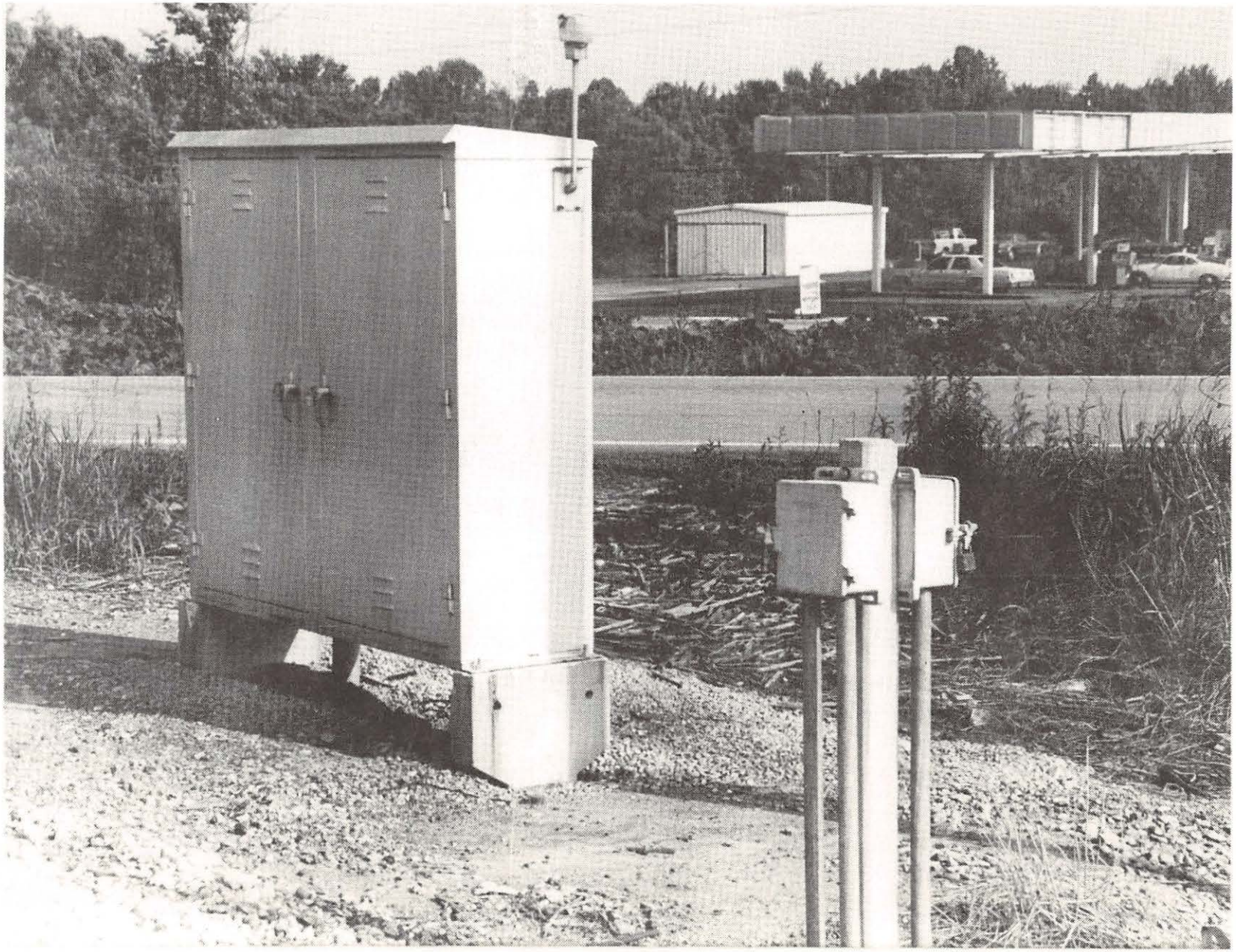
DPH-144

HEIGHT 2'6" 10" C-C
FOUR LIGHT BRACKET MOUNTING INSERTS ON FACE, 4" X 12-3/4" CENTERED 5" FROM TOP, SIX 3/4" GALV, BOLTS, NUTS & WASHERS.



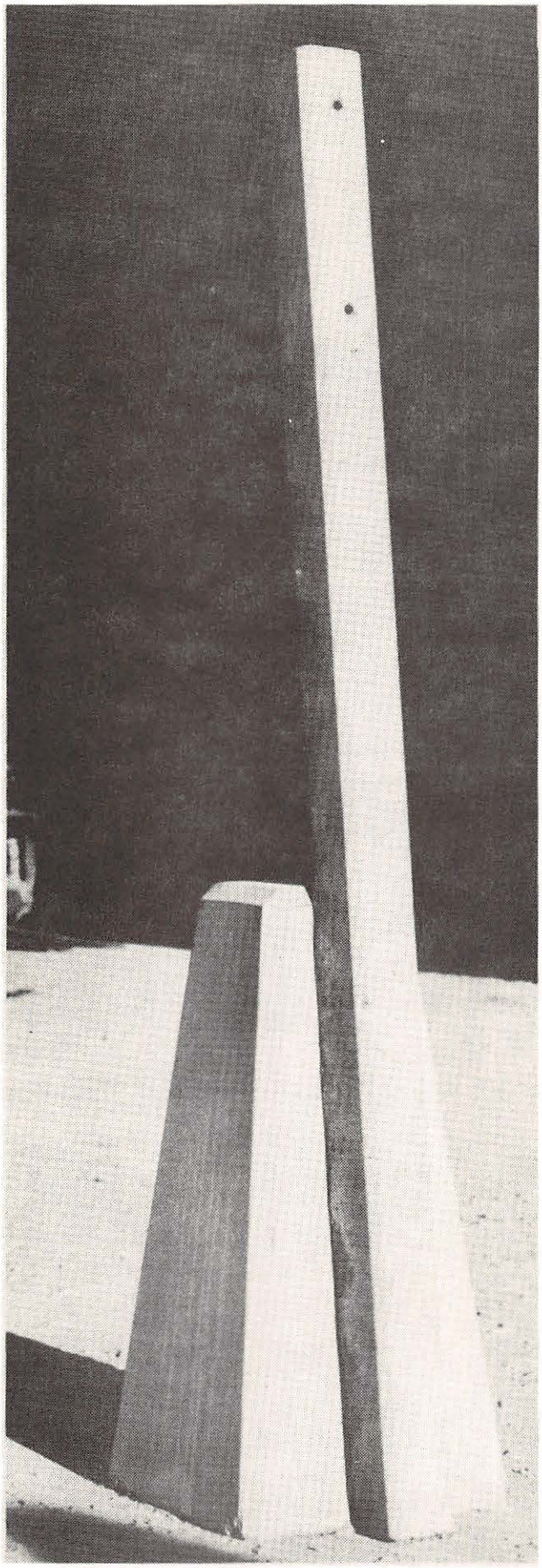
DP AP-392

Instrument Case Piers 18-1/2" Bolt spacing. Height 4'-0". Bolt projection 2-1/4" unless requested otherwise. Two 3/4" X 12" galvanized bolts, nuts and washers.

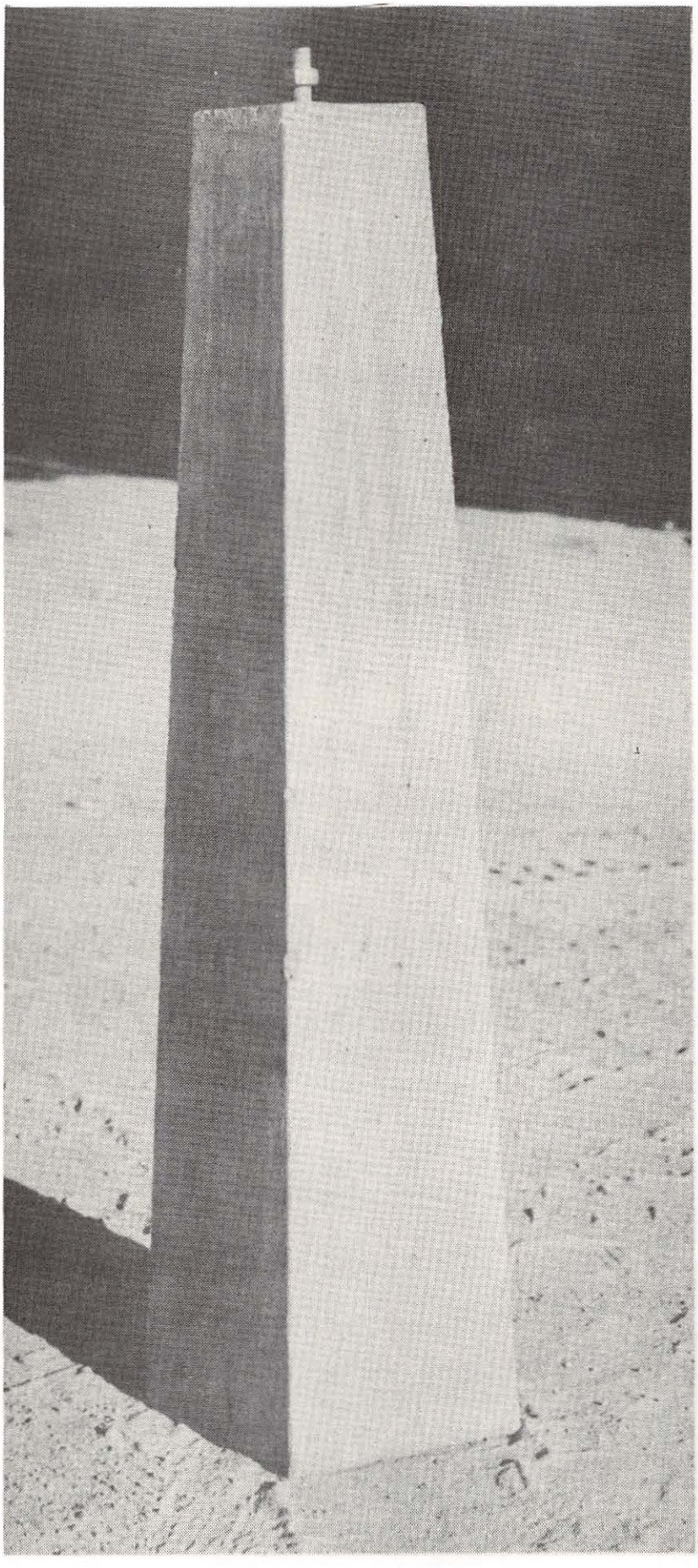


DP AP-392

Installed with 8' junction box post



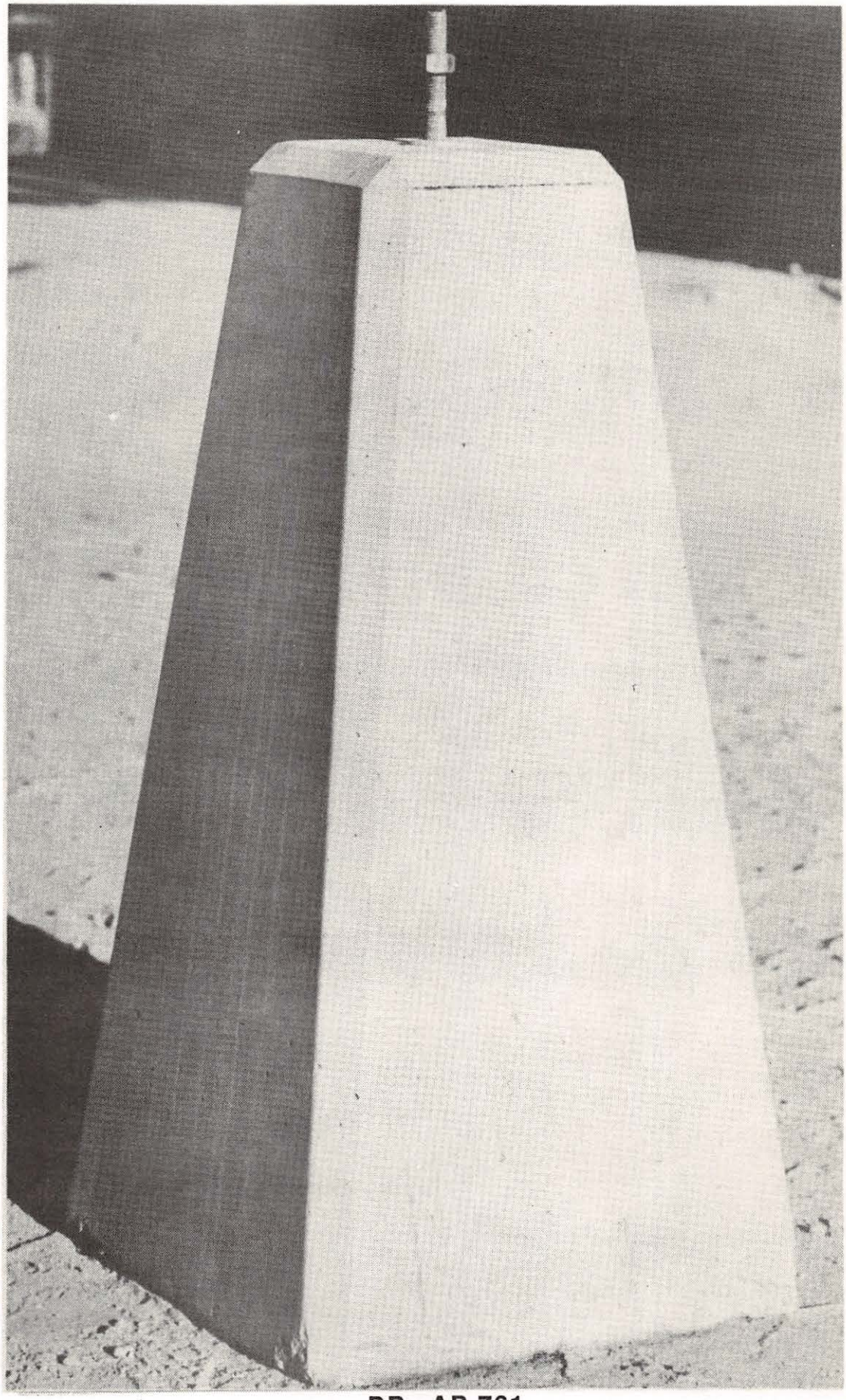
Junction Box Post
4-1/4" X 4-1/4" sq. Height 8'. With two 5/8" holes 12" center to center.



DP AP-607

Relay House Piers. 6" X 6" sq. top 10" X 10" sq. base. Height 4'-0". Bolt projection 1-1/2" unless requested otherwise. One 3/4" X 12" galvanized bolt, nut and washer.

DP AP-607
Installed



DP AP-761

Relay House Piers.

9-1/2" X 9-1/2" sq. top 18" X 18" sq. base. Height 3'-0". Bolt projection 1-1/2" unless requested otherwise one 3/4" X 12" galvanized bolt, nut and washer.

DIXIE PRECAST, INC.

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MANUFACTURERS OF PRECAST CONCRETE
SINCE 1947

INDEX

PRECAST CONCRETE PRODUCTS FOR RAILROADS

ITEM	ITEM #	PAGE
SPECIFICATIONS		1
CABLE POST, HIGHWAY CROSSING FLASHERS	S-1	2
CANTILEVER HIGHWAY CROSSING FLASHERS	S-2	3
CANTILEVER HIGHWAY CROSSING FLASHERS	DP-2	4
CANTILEVER HIGHWAY CROSSING FLASHERS	DPM-2	5
GROUND MAST BOTTOM MECHANISM	DP S-3	6
GROUND MAST BOTTOM MECHANISM	DP S-3R	6
SIGNALS AND INSTRUMENT CASES	DP S-4	7
SINGLE AND DOUBLE-DOOR BOTTOM MECHANISM CASES	DP S-4R	7
INSTRUMENT CASE	DP S-4R(1)	7
HORIZONTAL COMPENSATORS	DP S-6	8
HORIZONTAL CRANKSTAND	DP S-7	9
CANTILEVER SIGNAL FOUNDATION 10FT. & 12FT.	DP S-9	10
BRACKET POST SIGNAL MAST	DP S-10	11
WALKOUT CANTILEVER FOUNDATION 12FT, 14FT, & 16FT.	DP S-10W	12
WALKOUT CANTILEVER FOUNDATION 18', 20', 22' TO 30'	DP S-103W	13
WALKOUT CANTILEVER FOUNDATION 18', 20', 22' TO 30'	DP S-103WS	14

INDEX

PRECAST CONCRETE PRODUCTS FOR RAILROADS

ITEM	ITEM #	PAGE
US&S CANTILEVER FOUNDATION 10' THROUGH 26'	DP S-10127	15
US&S CANTILEVER FOUNDATION 10' THROUGH 26'	DP S-10127s	16
LATTICE BRACKET POST	DP S-14	17
HIGHWAY TYPE TRUSS SIGNAL BRIDGE	DP S-16x	18
BRIDGE FOUNDATION 70' SPAN DOUBLE MAST	DP S-17-70	19
US&S MAST WALKOUT CANTILEVER 28' THROUGH 34'	DP S-12127	20
US&S MAST WALKOUT CANTILEVER 36'	DP S-12128	20
US&S MAST WALKOUT CANTILEVER 38' THROUGH 40'	DP S-12129	20
US&S MAST WALKOUT CANTILEVER 28' THROUGH 34' FOUR PART BASE	DP S-12127s	21
US&S MAST WALKOUT CANTILEVER 36' FOUR PART BASE	DP S-12128s	21
US&S MAST WALKOUT CANTILEVER 38' THROUGH 40' FOUR PART BASE	DP S-12129s	21
US&S MAST WALKOUT CANTILEVER 28' THROUGH 34'	DP S-19197	22
US&S MAST WALKOUT CANTILEVER 36'	DP S-19198	22
US&S MAST WALKOUT CANTILEVER 38' THROUGH 40'	DP S-19199	22
US&S MAST WALKOUT CANTILEVER 28' THROUGH 34' FOUR PART BASE	DP S-19197s	23
US&S MAST WALKOUT CANTILEVER 36' FOUR PART BASE	DP S-19198s	23
US&S MAST WALKOUT CANTILEVER 38' THROUGH 40' FOUR PART BASE	DP S-19199s	23
SAFETRAN W.N.R. DOUBLE MAST WALKOUT CANTILEVER	DP S-2317	24

INDEX

PRECAST CONCRETE PRODUCTS FOR RAILROADS

ITEM	ITEM	PAGE
SAFETRAN BUTTERFLY "T" SIGNAL	DP S-4023	25
DWARF SIGNALS		26
ELECTRIC SWITCH LAMPS		26
ELECTRIC SWITCH LOCKS		26
SWITCH SIGNALS		26
INSTRUMENT CASE PIERS	DP AP-392	27
INSTRUMENT CASE PIERS	DP AP-392-1	28
RELAY HOUSE PIERS	DP AP-761	29
RELAY HOUSE PIERS	DP AP-607	30
JUNCTION BOX POST		31

DIXIE PRECAST, INC.
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SPECIFICATIONS FOR PRECAST CONCRETE RAILROAD FOUNDATIONS

ITEM 1. Cement type I or type III ASTM C 150

ITEM 2. Coarse aggregate No. 7 size, crushed granite. Fine aggregate, quartz silica sand.

ITEM 3. Water ratio for 3 inch to 4 inch maximum slump.

ITEM 4. Air entrainment of 4% to 5%.

ITEM 5. All products to be cast in rigid steel molds, vibrated enough to consolidate around steel reinforcing without aggregate seperation.

ITEM 6. Minimum strength in 28 days 4,500 PSI to 5,000 PSI.

ITEM 7. Reinforcing steel, grade 40 ASTM A 615

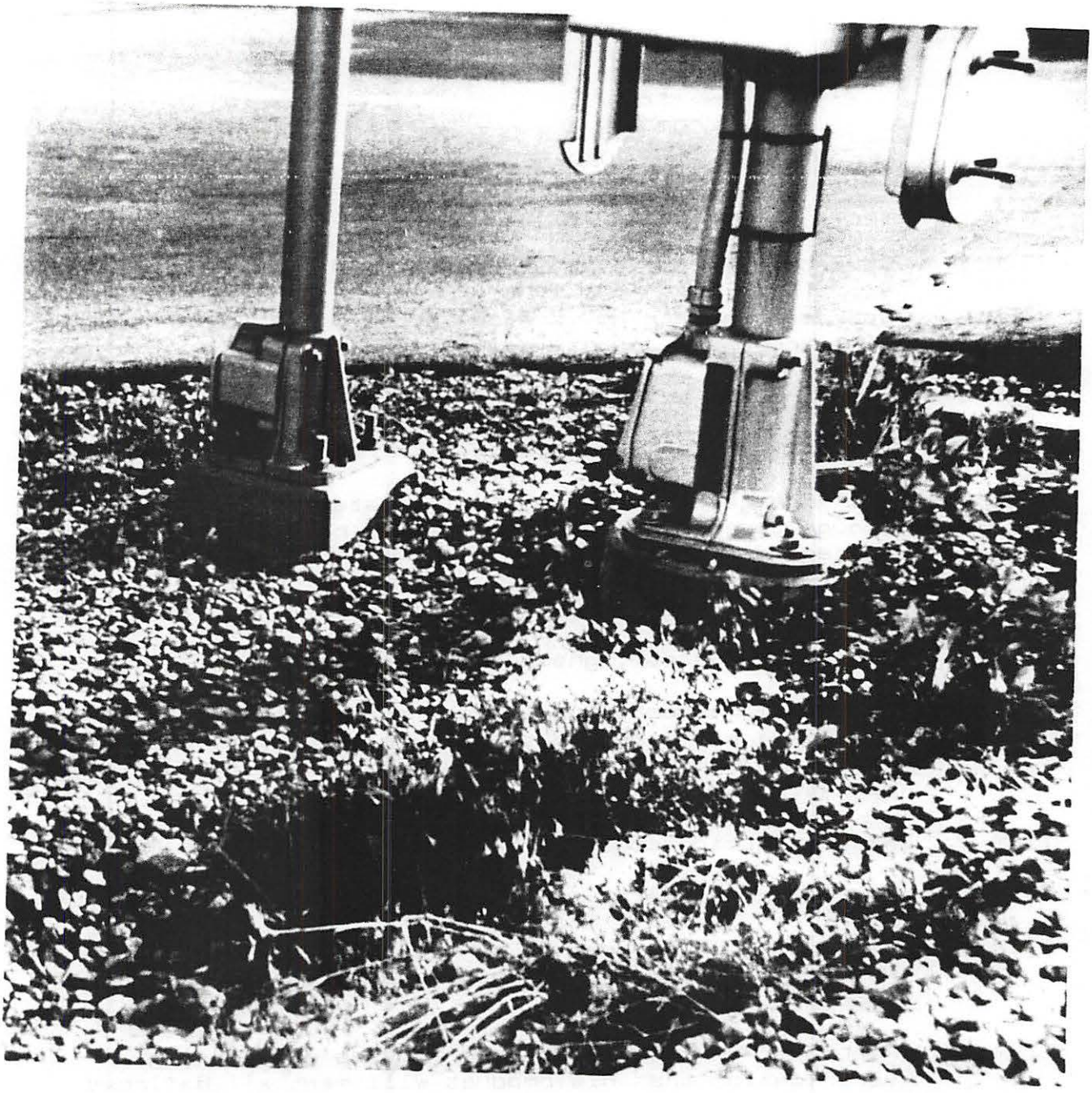
ITEM 8. Sectional Foundation bolts are hot rolled, bolts, nuts and washers are Merchant and Special Quality ASTM A 307. Tensil 60,000 PSI, yield 36,000 PSI, with galvanizing per ASTM A 123 or 153.

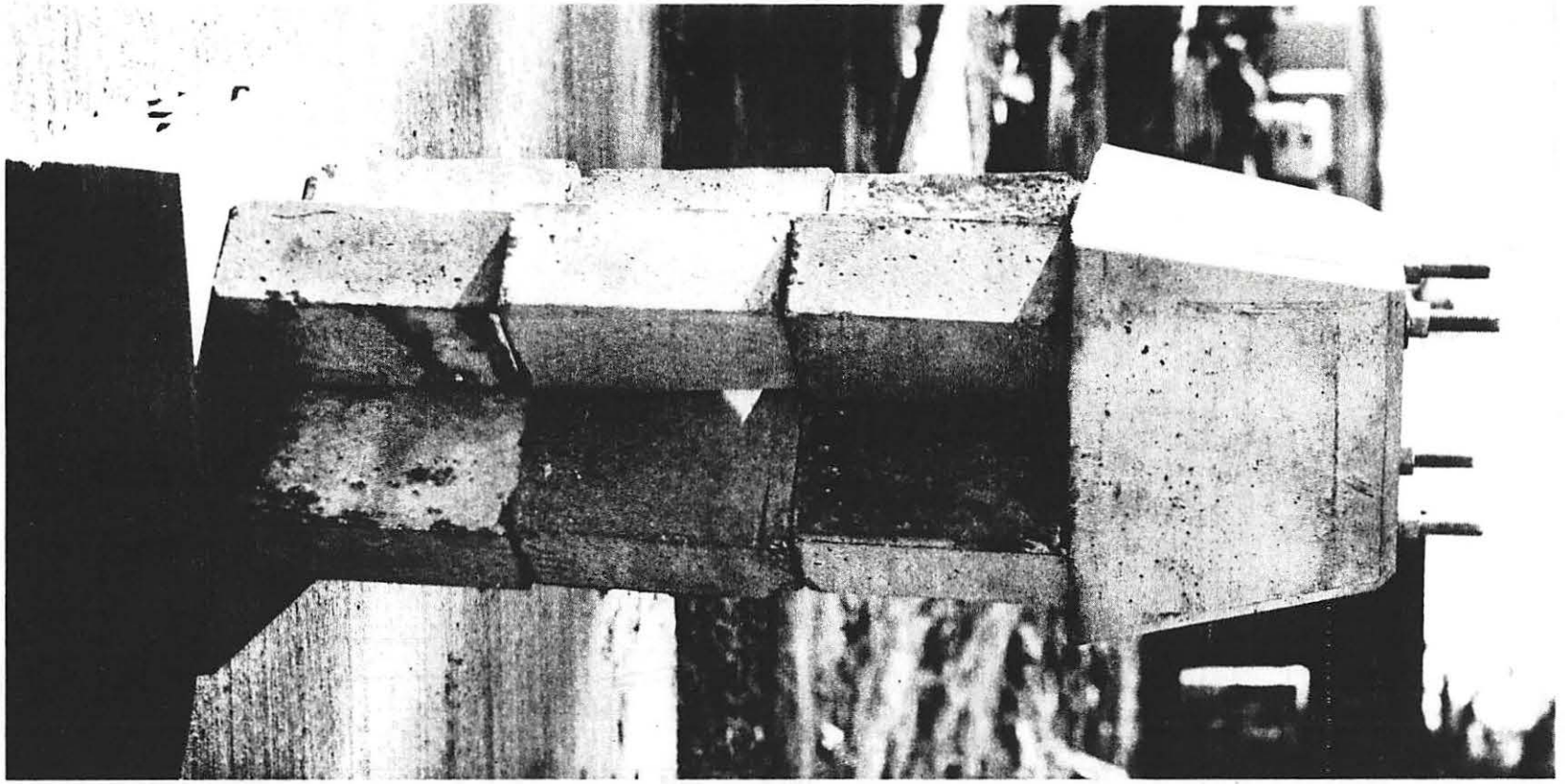
ITEM 9. Water reducing additive may be used.

ITEM 10. Calcium chloride is not to be used under any conditions.

ITEM 11. All reinforcing steel to be pre fabricated and shop welded to insure proper spacing and placement of all mats and donut baskets.

ITEM 12. Manufacturer must be able to provide engineering verification that his product will meet all Railroad Design requirements or exceed same.





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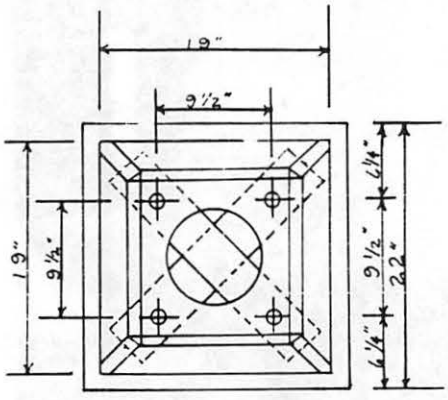
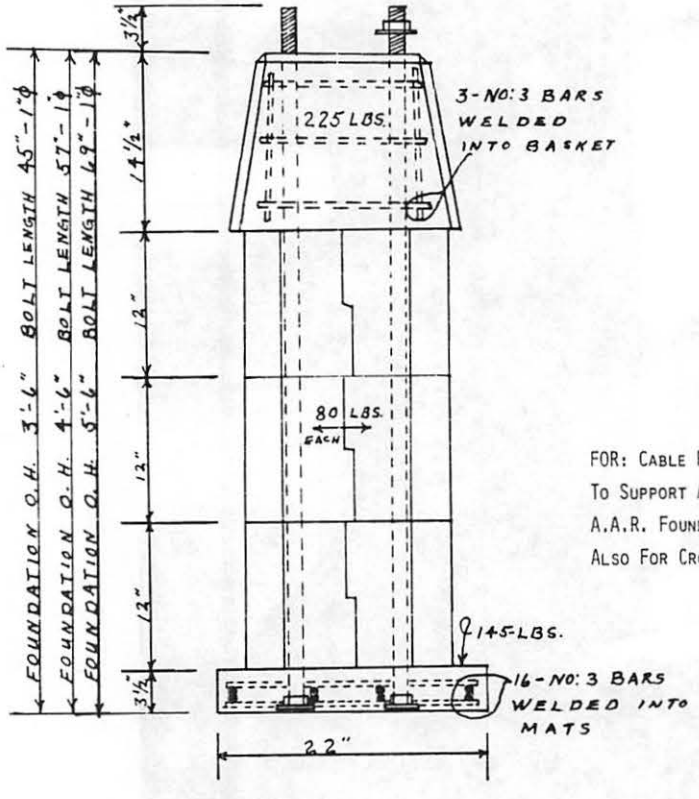
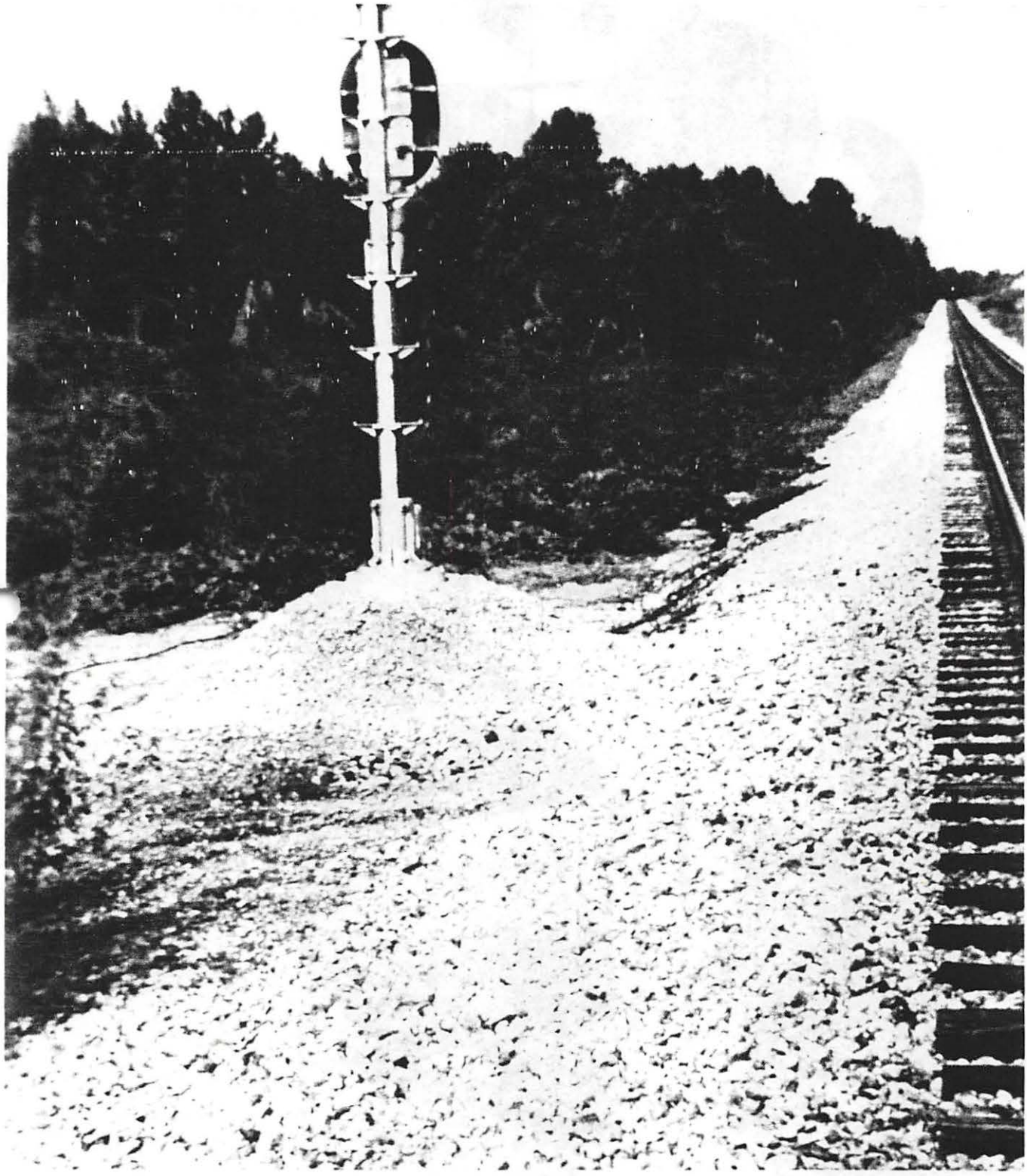
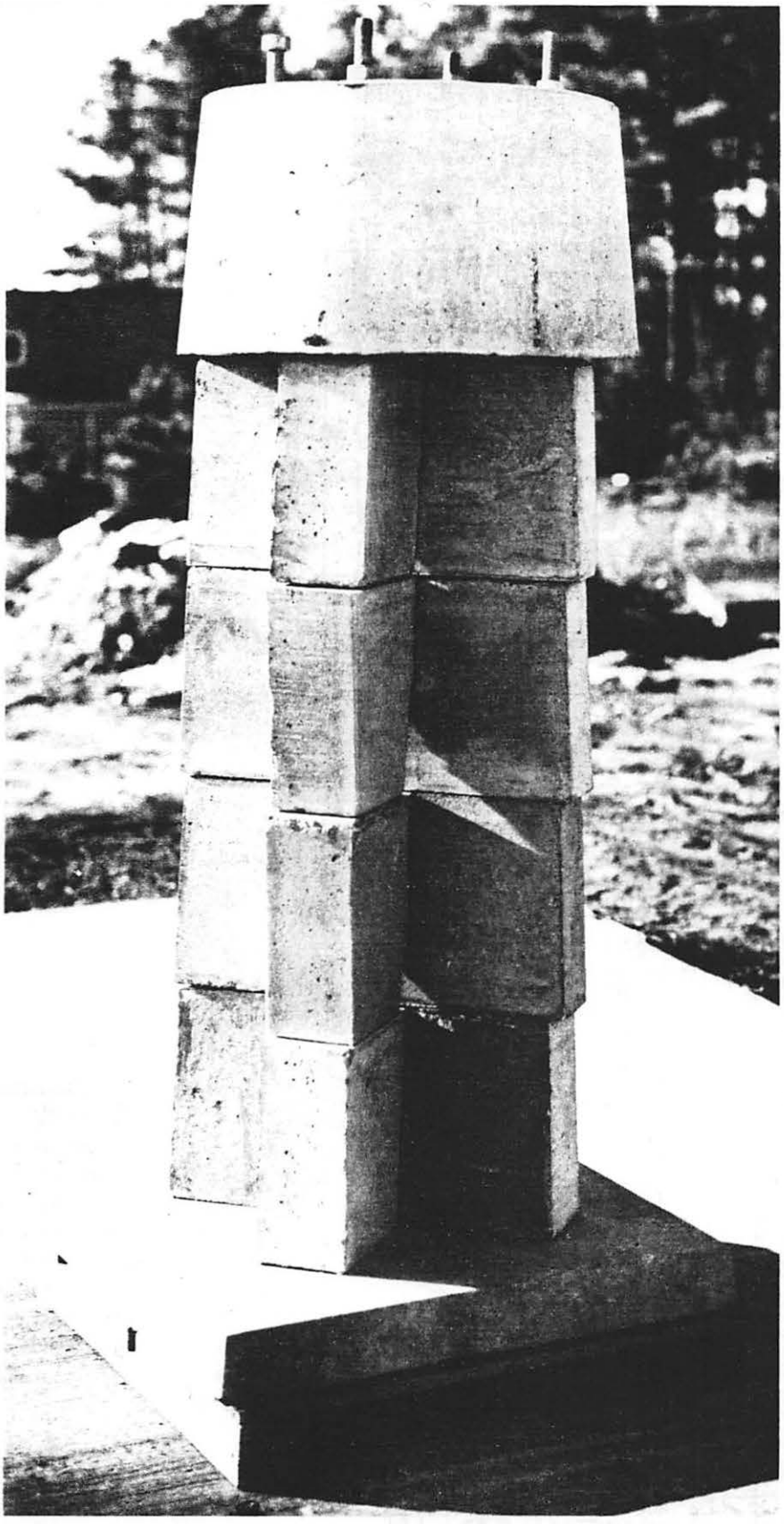




DP S - 1
SECTIONAL FOUNDATION
1"-GALV. THRU BOLTS
9½" x 9½" c-c
BOLT SPACING
FOR: CABLE POSTS, HIGHWAY CROSSING FLASHERS, 4" MASTS.
TO SUPPORT A.A.R. SIGNAL BASE No. 1449 B. AND SUPPLANT
A.A.R. FOUNDATION No. 1694 A.
ALSO FOR CROSS BUCK SIGN POST No. 1691 - B

DPS - 1





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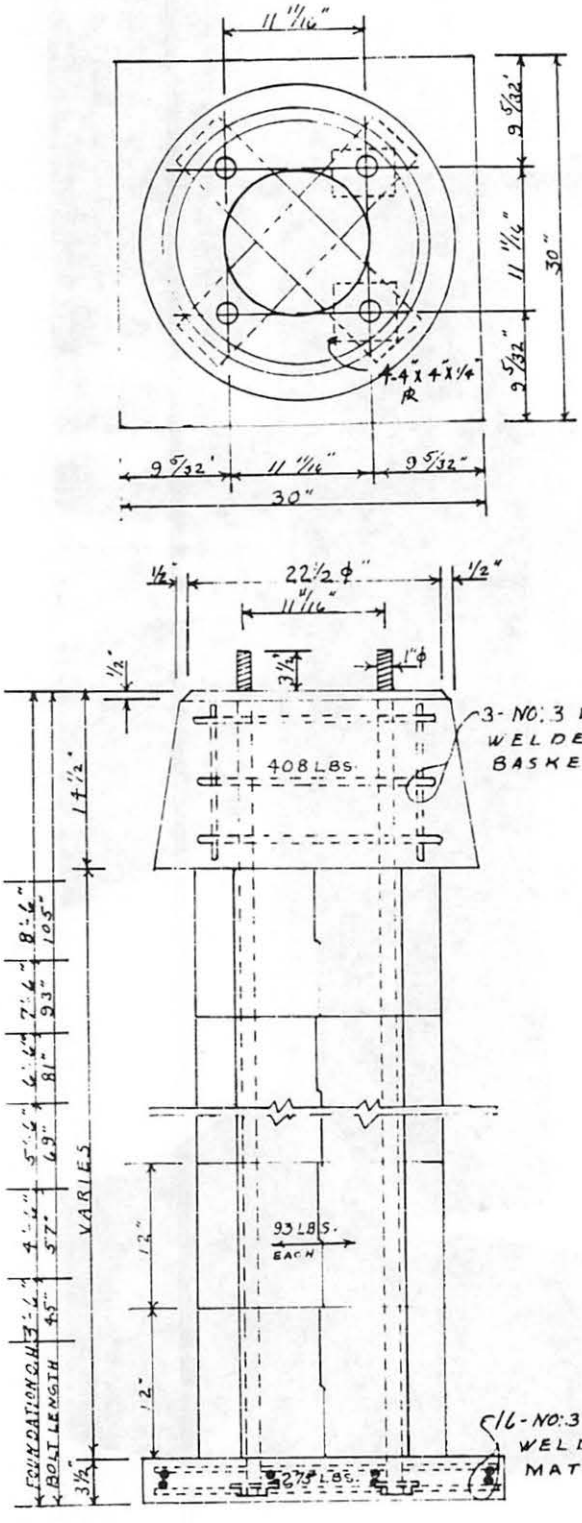


DP S - 2 FOUNDATION

$11\frac{11}{16}$" x $11\frac{11}{16}$"

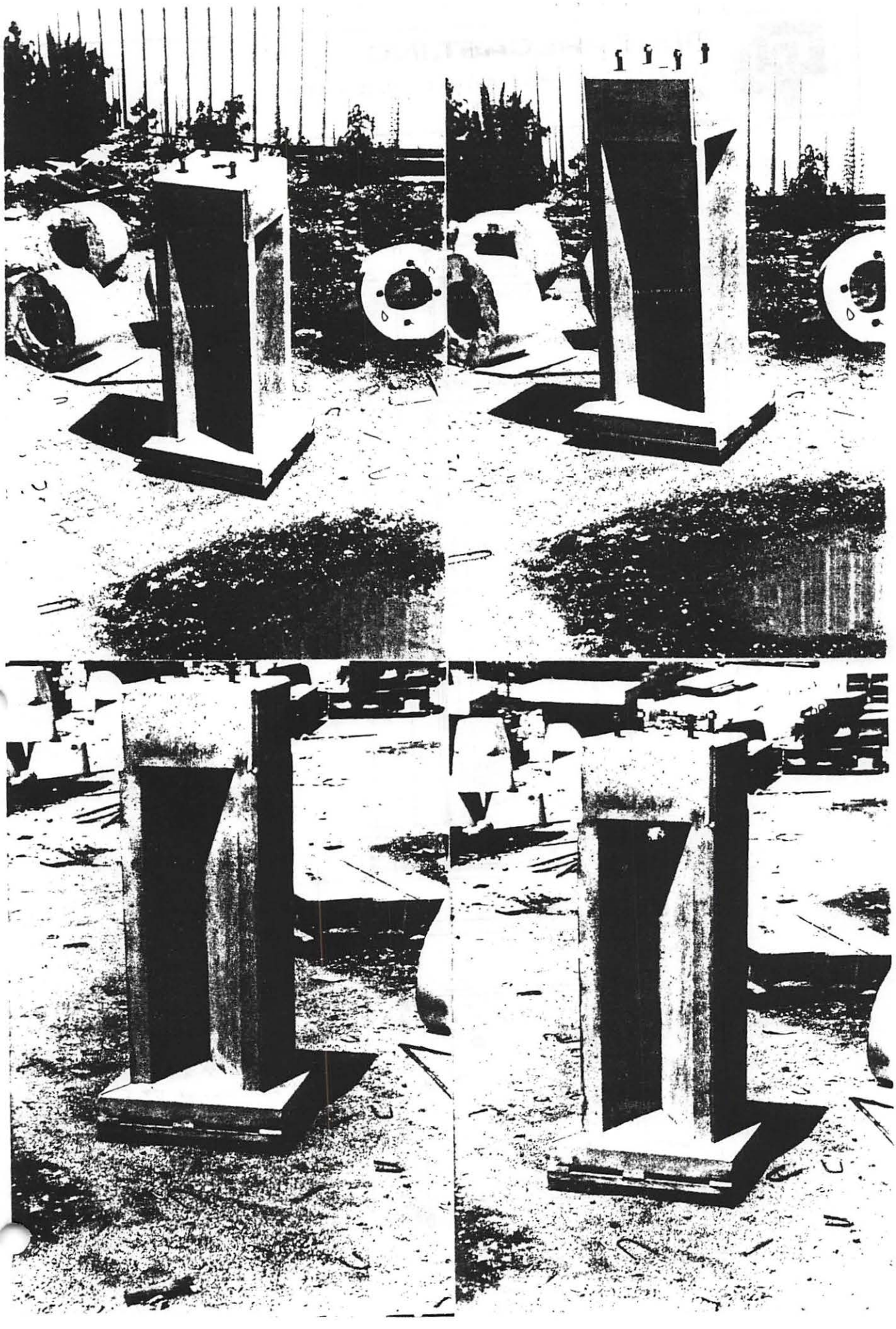
1" GALV. THRU BOLTS

BOLT SPACING

FOR GROUND SIGNALS, CANTILEVER HIGHWAY CROSSING FLASHERS WITH 4" 5" OR 6" MASTS. TO SUPPORT A.A.R. SIGNAL BASES NOS. 1250 A, 1448 A, 1614 A, 1447 A. TO SUPPLANT A.A.R. FOUNDATION NO. 1107 D. FOR: A 30-FOOT MAST AND TARGET OR A CROSSING GATE WITH 35 OR 45-FOOT ARMS.

AVAILABLE IN THE FOLLOWING HIEGHTS, 3'-6",4'-6", 5'-6", 6'-6", 7'-6", 8'-6".

DPS - 2



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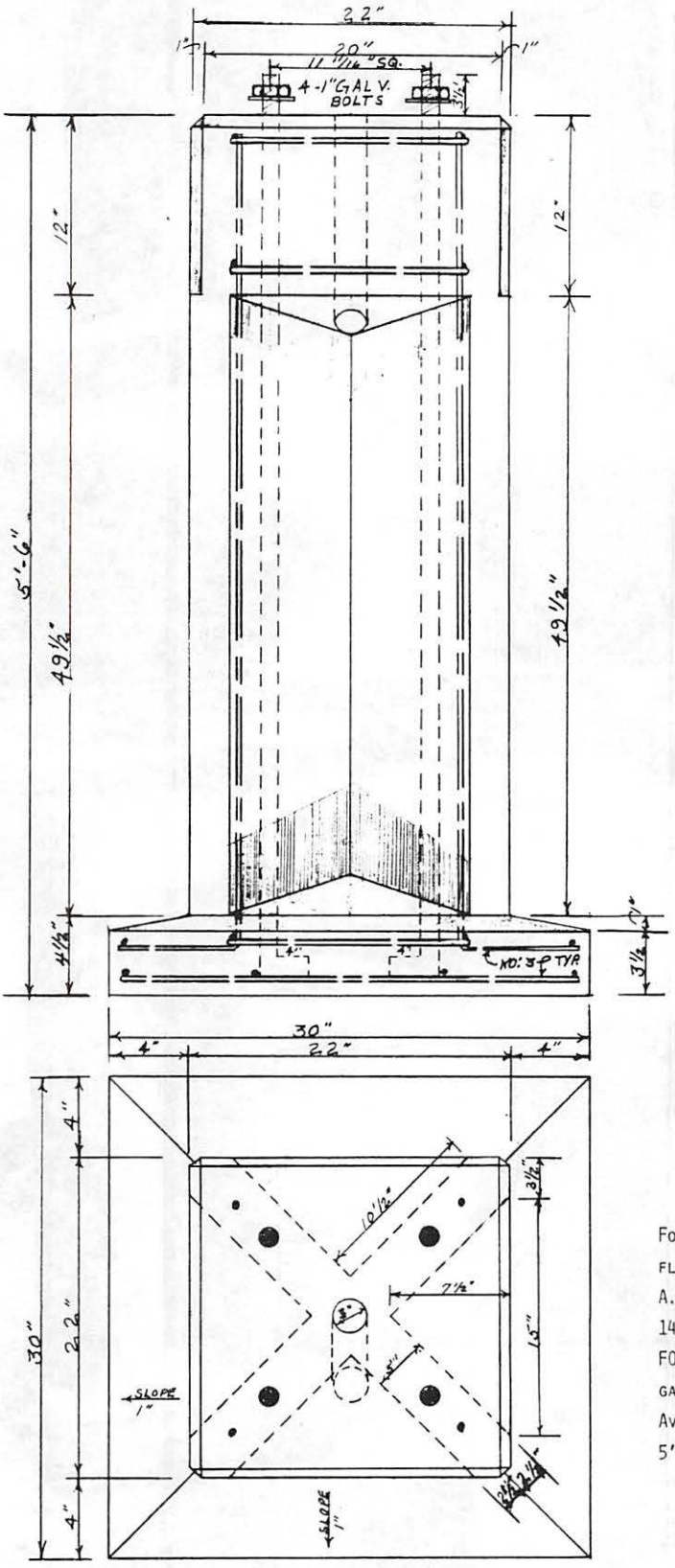

DP 2 FOUNDATION
$11\frac{11}{16}$" x $11\frac{11}{16}$"
1" GALV. THRU BOLTS
BOLT SPACING

FOR GROUND SIGNALS, CANTILEVER HIGHWAY CROSSING FLASHERS WITH 4" 5" OR 6" MASTS. TO SUPPORT A.A.R. SIGNAL BASES NOS. 1250 A, 1448 A, 1614 A, 1447 A. TO SUPPLANT A.A.R. FOUNDATION NO. 1107 D. FOR: A 30-FOOT MAST AND TARGET OR A CROSSING GATE WITH 35 OR 45-FOOT ARMS.
AVAILABLE IN THE FOLLOWING HIEGHTS, 3'-6", 4'-6", 5'-6", 6'-6", 7'-6", 8'-6".

DP-2

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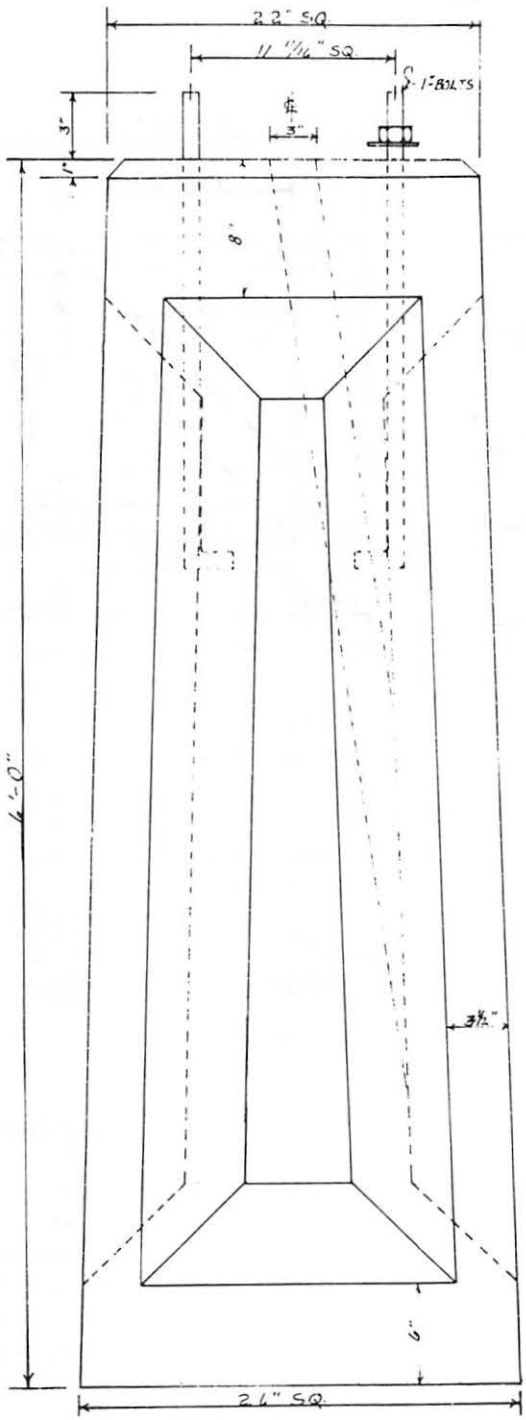
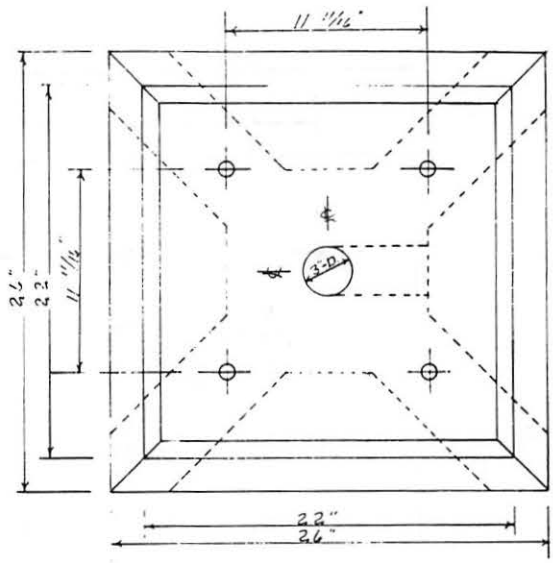
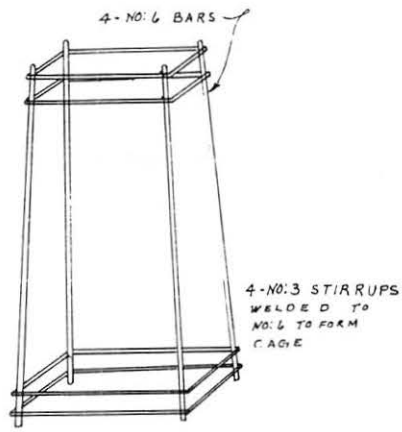


DPM-2





DPM - 2 FOUNDATION
$11\frac{11}{16}$" x $11\frac{11}{16}$"
1" GALV. THRU BOLTS
BOLT SPACING

FOR GROUND SIGNALS, CANTILEVER HIGHWAY CROSSING FLASHERS WITH 4" 5" OR 6" MASTS. TO SUPPORT A.A.R. SIGNAL BASES NOS. 1250 A, 1448 A, 1614 A, 1447 A. TO SUPPLANT A.A.R. FOUNDATION NO. 1107 D. FOR: A 30-FOOT MAST AND TARGET OR A CROSSING GATE WITH 35 OR 45-FOOT ARMS.
AVAILABLE IN THE FOLLOWING HIEGHTS, 3'-6", 4'-6", 5'-6", 6'-6", 7'-6", 8'-6".

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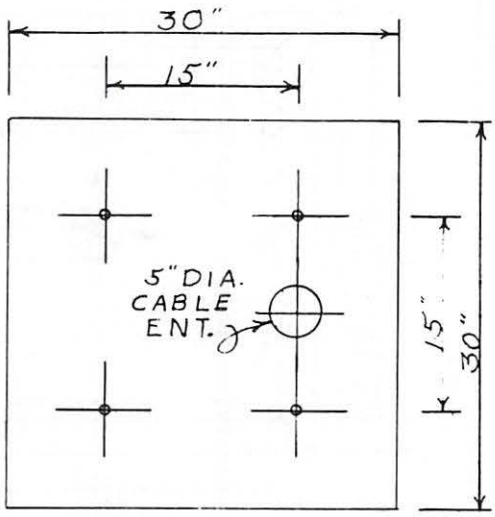
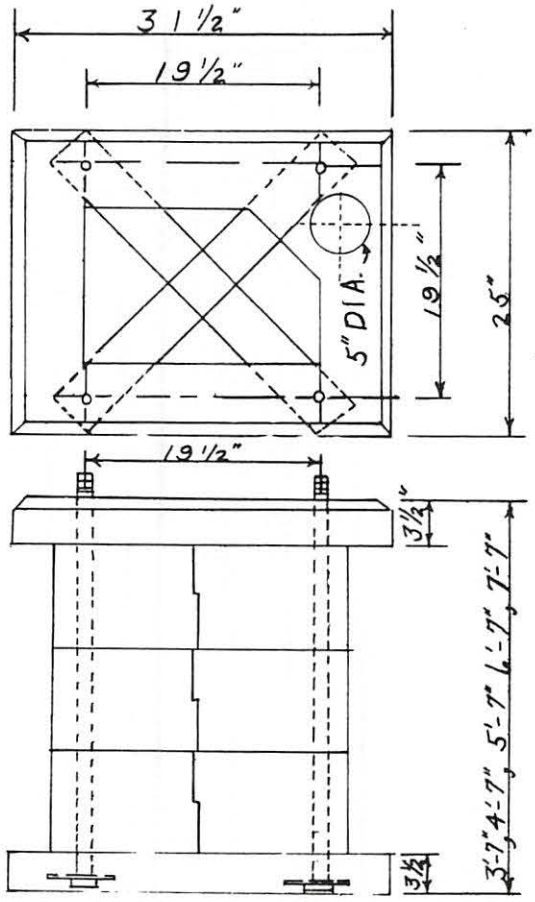


DPS-3R

DP S - 3 R Foundation
1" Galv. Bolts
Appliance Bases
15" x 15"
Bolt Spacing
Available in: 4'-7", 5'-7".



DPS-3

DP S - 3 Foundation
19½" x 19½"
1" Galv. Bolts
Bolt Spacing
Used with ground mast bottom mechanism railroad signals and instrument cases, 1387. For A.A.R. signal adapter 1386, supplants A.A.R. signal foundation no. 1259 C. Available in the following hieghts, 3'-7", 4'-7", 5'-7", 6'-7".

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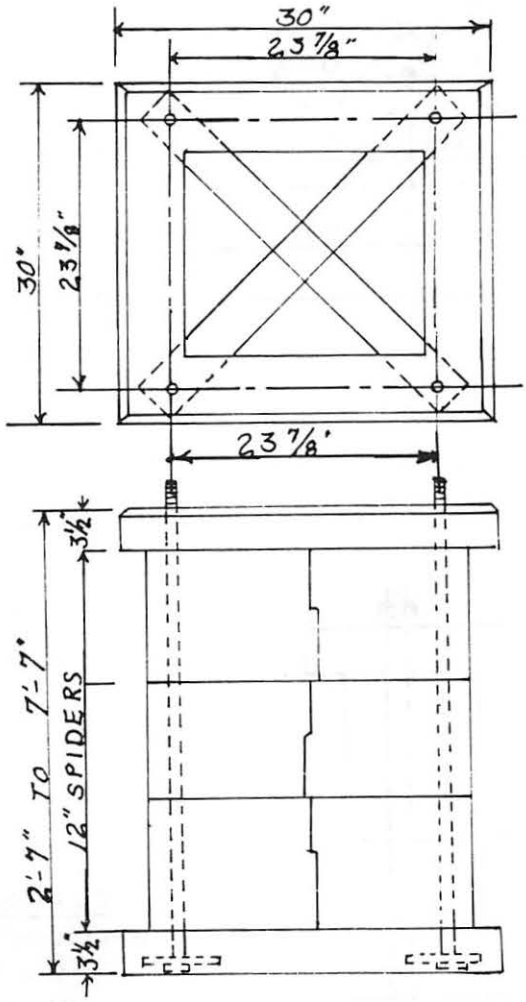

DPS-4

DP S - 4 R Foundation
21" x 25½"
1" Galv. Bolts
Bolt Spacing

For US & S CO single and double-door bottom mechanism cases. Available in 2'-7", 3'-7", 4'-7", 5'-7", 6'-7", 7'-7".

DP S - 4 R (1) Foundation
22" x 25"
1" Galv. Bolts
Bolt Spacing

Instrument Case bolt spacings. Specify bolt centers and height desired. Available in 2'-7", 3'-7", 4'-7", 5'-7", 6'-7", 7'-7".

DP S - 4 Foundation
23 7/8" x 23 7/8"
1" Galv. Thru Bolts
Bolt Spacing

Used with railroad signals and instrument cases for A.A.R. signal adapter 1387. Supplants A.A.R. signal foundation no. 1259 C.
To support A.A.R. signal base no. 1626 B, 1627 B, and signal adapter 1387.
Available in the following hieghts, 2'-7", 3'-7", 4'-7", 5'-7", 6'-7", 7'-7".

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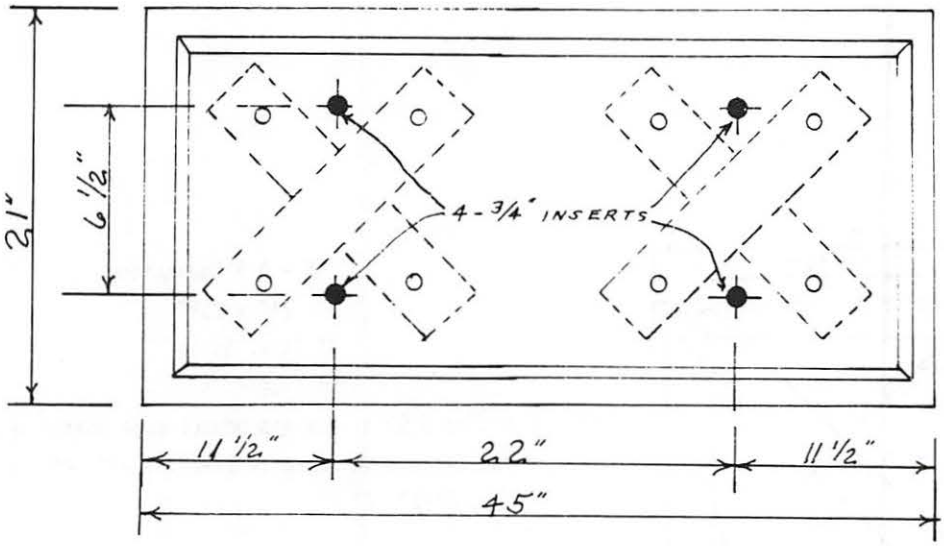

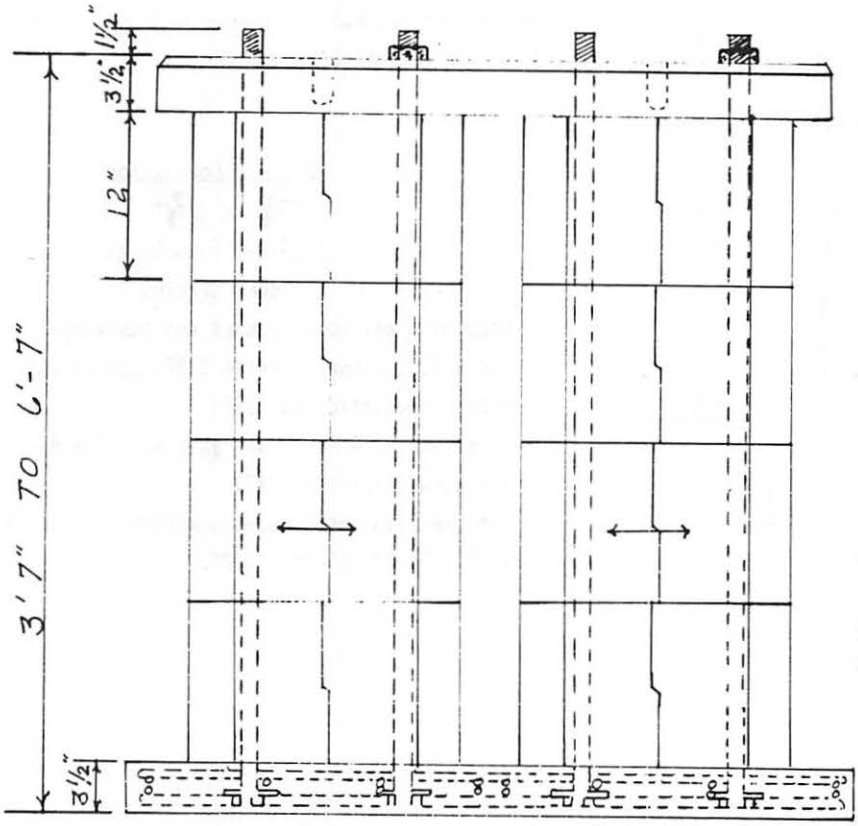

DP S - 6 FOUNDATION
FOR HORIZONTAL COMPENSATORS
1" GALV. BOLTS
6½" x 22"
BOLT SPACING

FOR MOUNTING THE APPLIANCE, FOUR 3/4" INSERTS ANCHORED TO REINFORCING ARE CAST IN TOP SECTION. FURNISHED WITH SIX 1" GALVANIZED THROUGH BOLTS, NUTS, AND WASHERS. STANDARD HEIGHTS ARE 3'-7", 4'-7", 5'-7", AND 6'-7".

DPS-6

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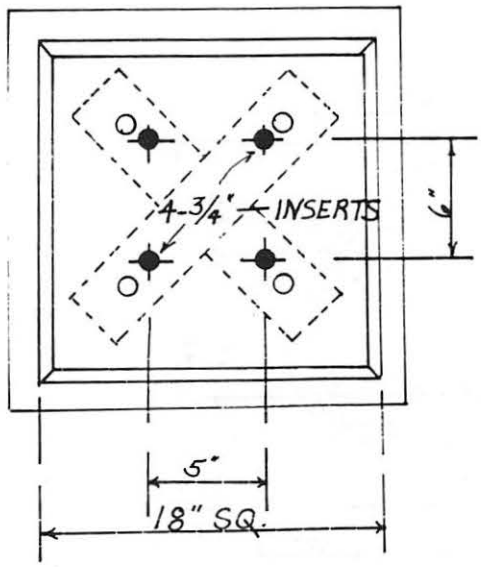

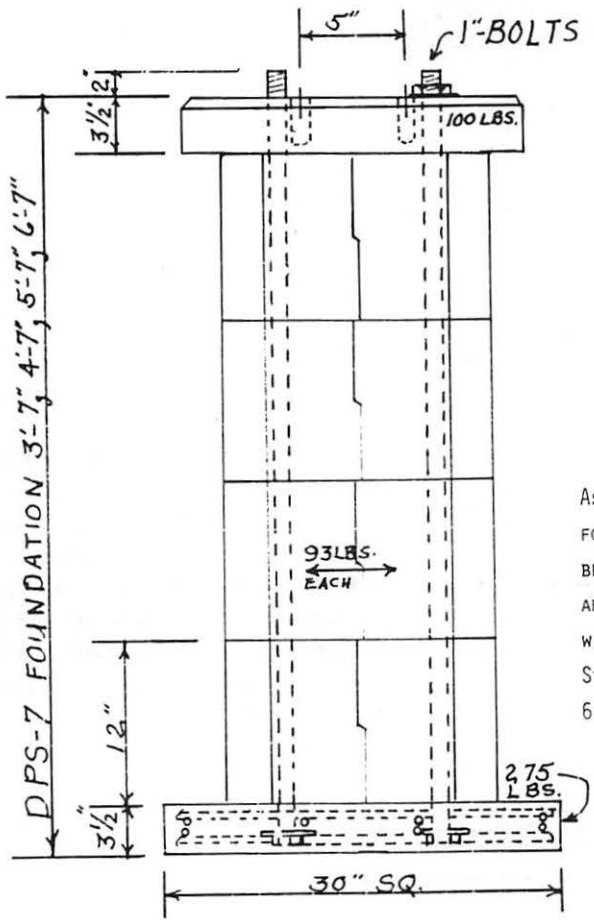

DP S - 7 FOUNDATION

1" GALV. BOLTS

BOLT SPACING

FOR HORIZONTAL CRANKSTAND

AS SHOWN IN THE DRAWING AND PHOTOGRAPH, THIS FOUNDATION HAS 3/4" INSERTS CAST IN THE TOP BLOCK FOR MOUNTING THE APPLIANCE. THE CENTERS ARE 5" x 6". THROUGH BOLTS DO NOT INTERFERE WITH THE APPLIANCE.

STANDARD HEIGHTS ARE 3'-7", 4'-7", 5'-7", AND 6'-7".

DPS-7

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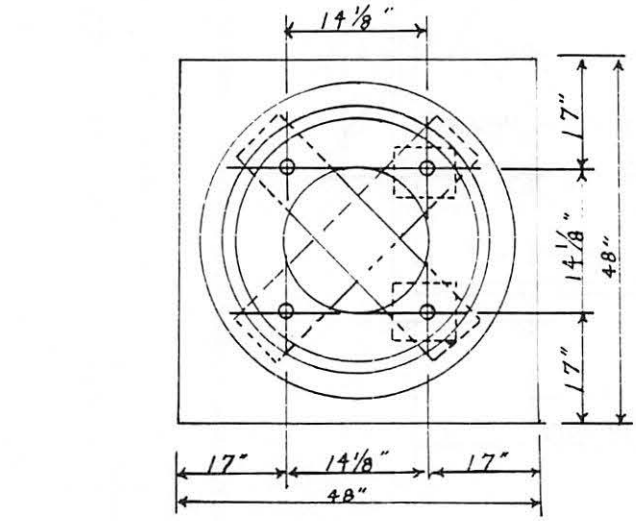

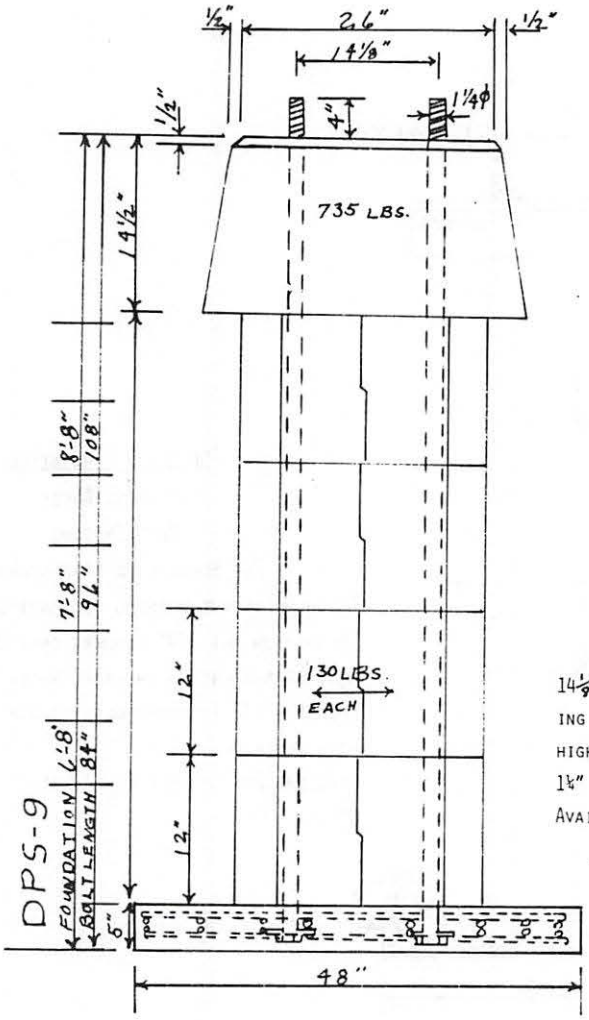

DP S - 9 FOUNDATIONS
1¼" GALV. BOLT
10 FT. AND 12 FT. CANTILEVER SIGNAL FOUNDATION
BOLT SPACING

14⅛" X 14⅛" BOLT SPACING. FOR CANTILEVER HIGHWAY CROSSING SIGNAL A.A.R. PLAN 1688-D, 8" MAST 1690-A. SUPPLANTS HIGHWAY CROSSING SIGNAL FOUNDATION A.A.R. 1687-B.
1¼" DIAMETER, GALVANIZED NUTS AND WASHERS.
AVAILABLE IN 6'-8", 7'-8", 8'-8".

DPS-9

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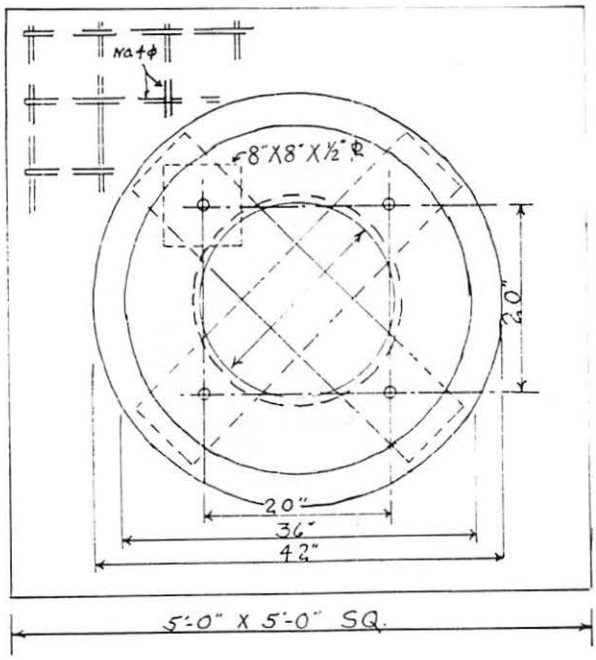

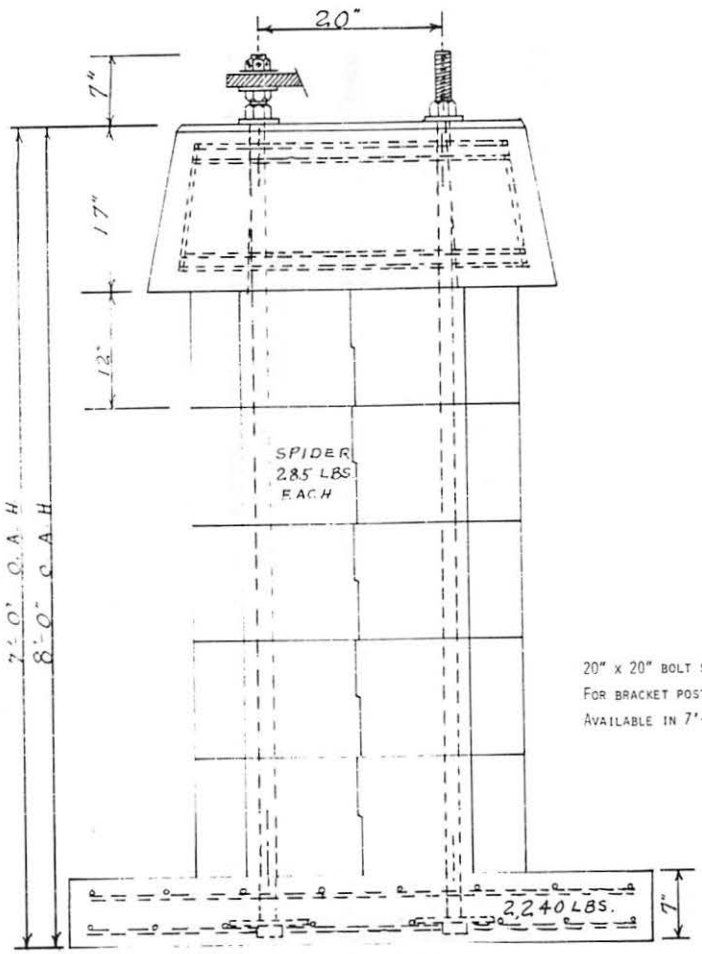

DP S -10 Foundation
1½" Galv. Bolts
Bracket Post Signal Mast
Bolt Spacing

20" x 20" bolt spacing
For bracket post signals and 10" and 12" mast socket bases.
Available in 7'-0", 8'-0".

DPS-10

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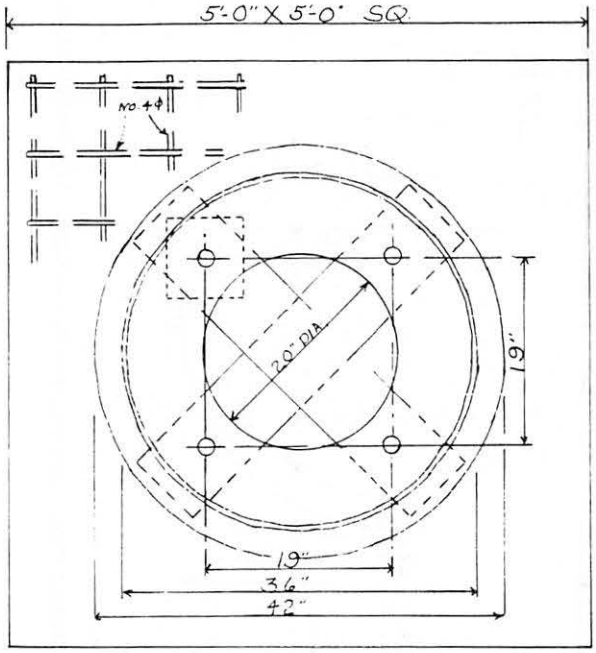

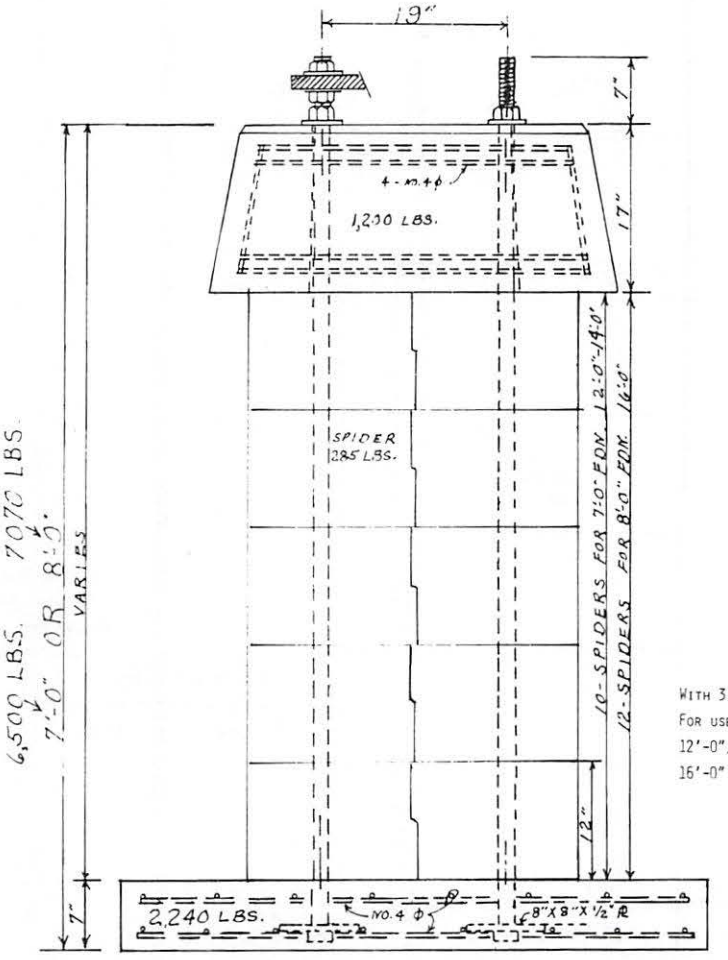

DP S - 10 W FOUNDATION
WALKOUT CANTILEVER FOUNDATION
SINGLE MAST
19" x 19" BOLT SPACING
1¼" GALV. BOLTS
WITH 3 NUTS AND 3 WASHERS EACH FOR LEVELING.
FOR USE WITH SAFE TRAN & UNION SWITCH & SIGNAL.
12'-0", 14'-0" ARMS USE 7'-0" HIGH FOUNDATION
16'-0" ARMS USE 8'-0" HIGH FOUNDATION.

DPS-10W

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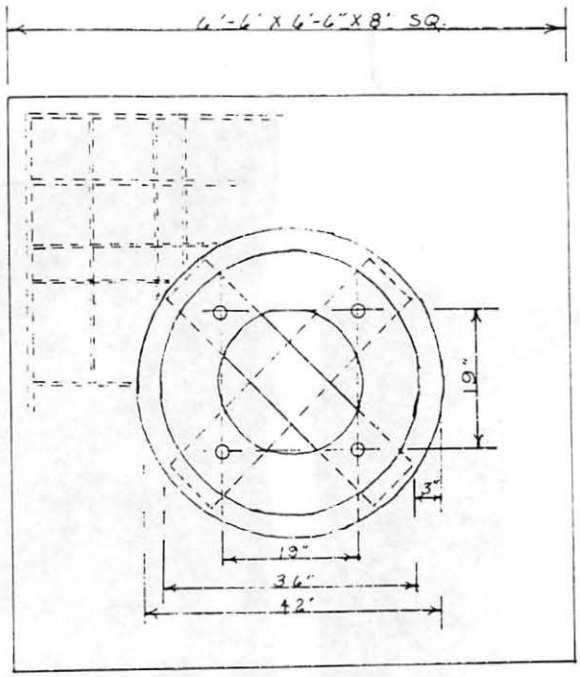
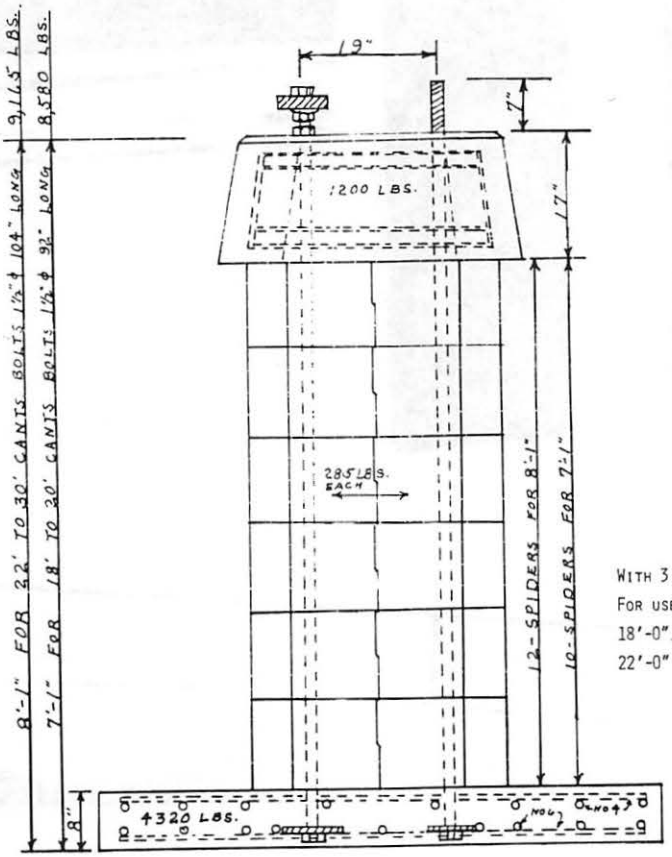
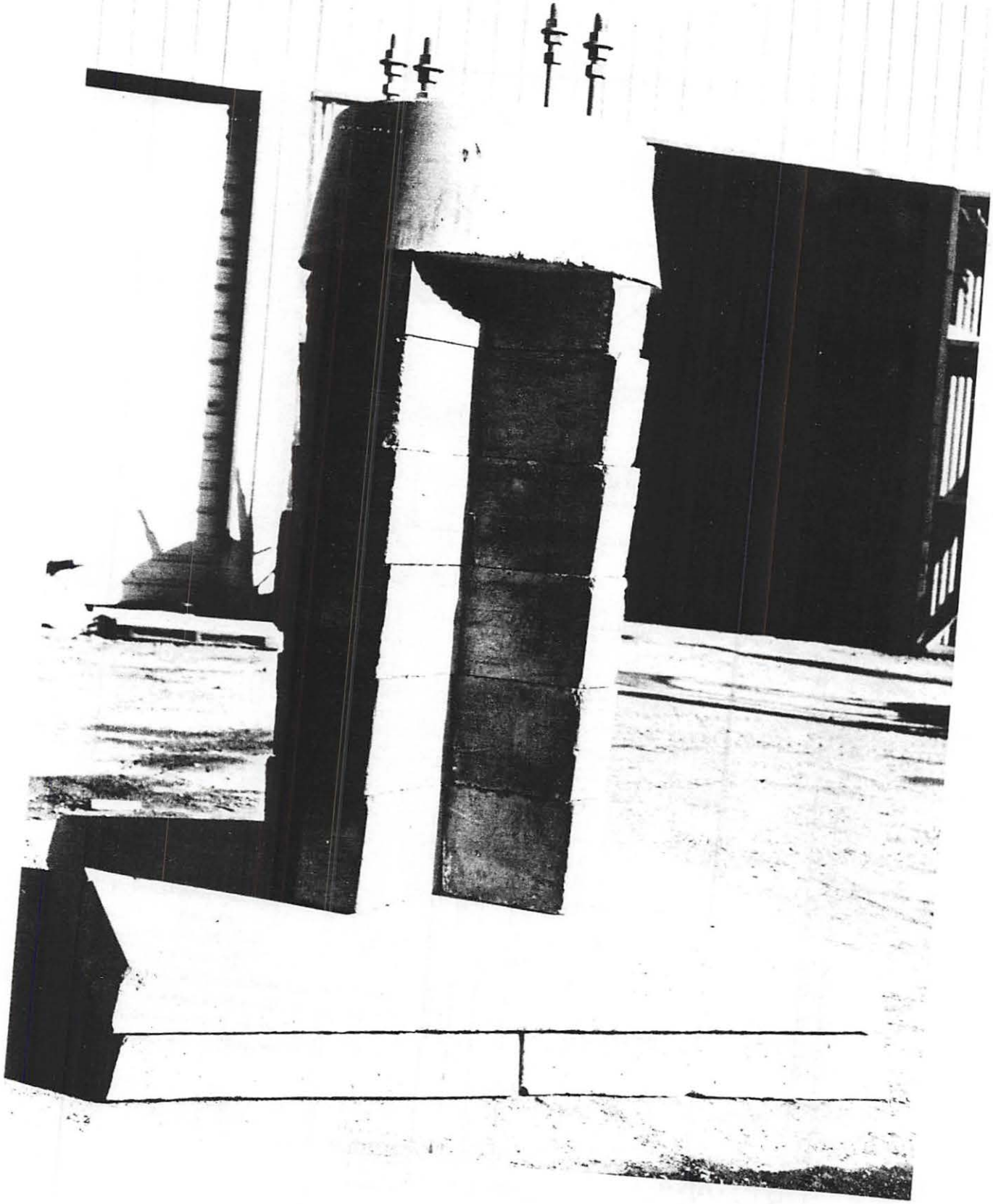




DP S - 10 - 3W FOUNDATION
WALKOUT CANTILEVER FOUNDATION
SINGLE MAST
19½" x 19" BOLT SPACING
1½" GALV. BOLTS
WITH 3 NUTS AND 3 WASHERS EACH FOR LEVELING.
FOR USE WITH SAFE TRAN & UNION SWITCH & SIGNAL.
18'-0", TO 20'-0" ARM USE 7'-1" HIGH FOUNDATION
22'-0" TO 30'-0" ARM USE 8'-1" HIGH FOUNDATION

DPS-10-3W



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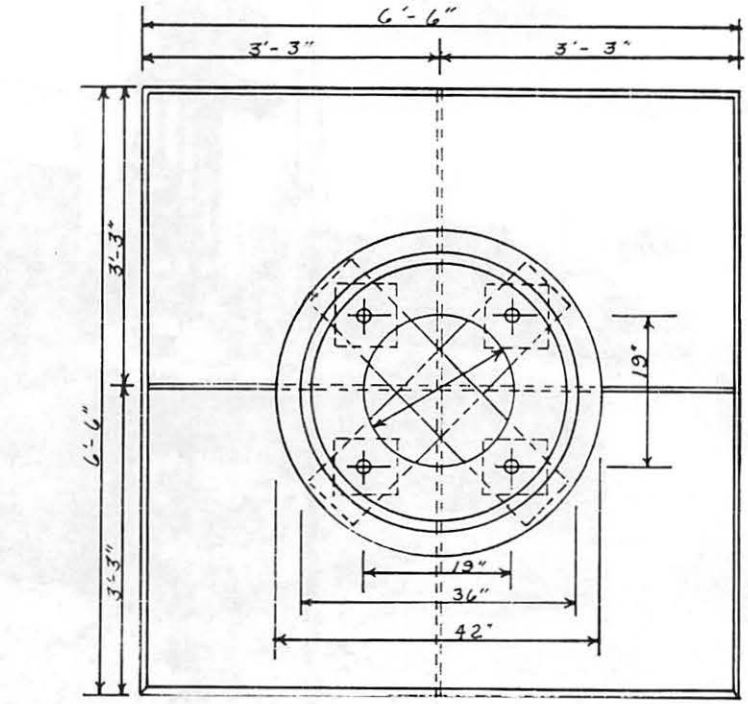

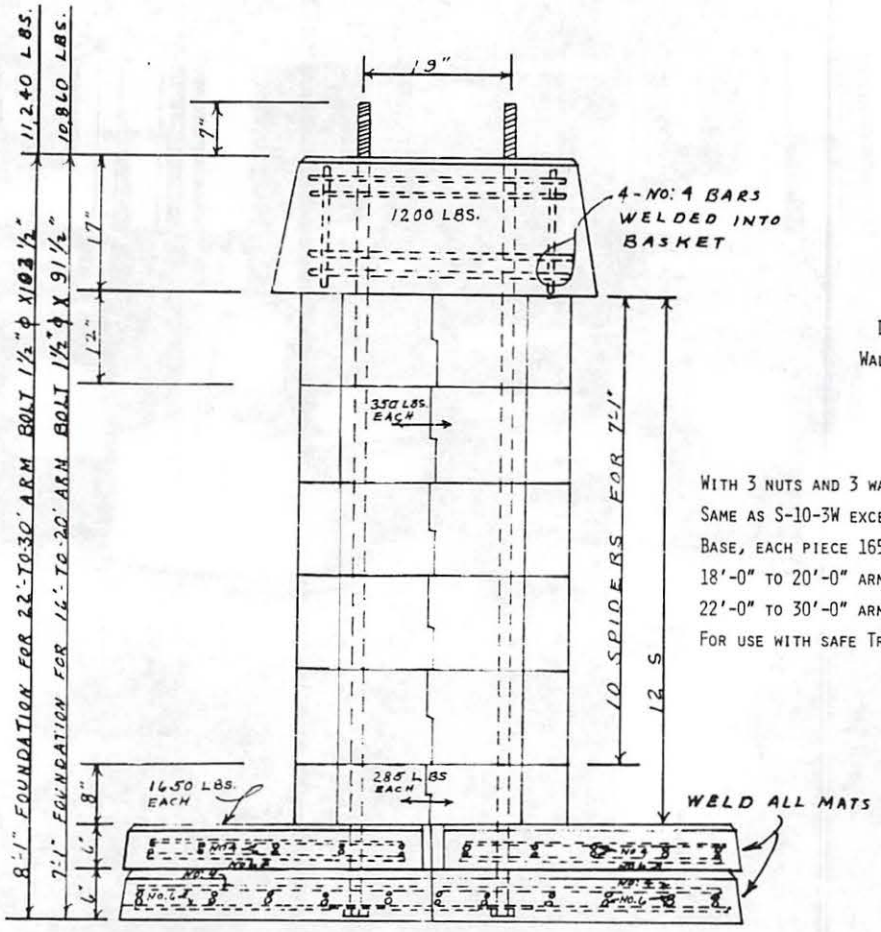

DP S - 10 - 3WS FOUNDATION
WALKOUT CANTILEVER FOUNDATION
SINGLE MAST
19" x 19" BOLT SPACING
1½" GALV. BOLTS
WITH 3 NUTS AND 3 WASHERS EACH FOR LEVELING.
SAME AS S-10-3W EXCEPT HAS A FOUR PART SECTIONAL BASE, EACH PIECE 1650 LBS.
18'-0" TO 20'-0" ARM USE 7'-1" HIGH FOUNDATION
22'-0" TO 30'-0" ARM USE 8'-1" HIGH FOUNDATION
FOR USE WITH SAFE TRAN & UNION SWITCH & SIGNAL MAST.

DPS-10-3WS

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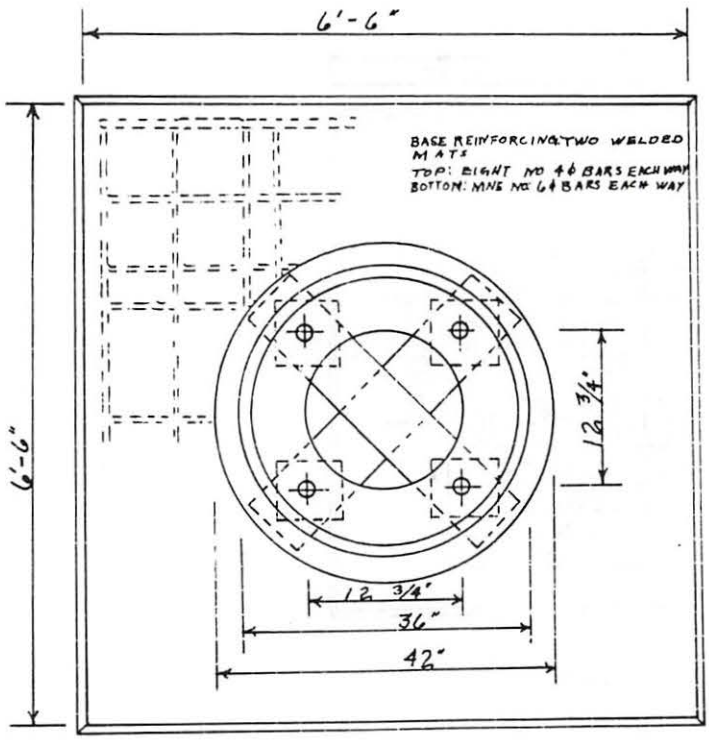

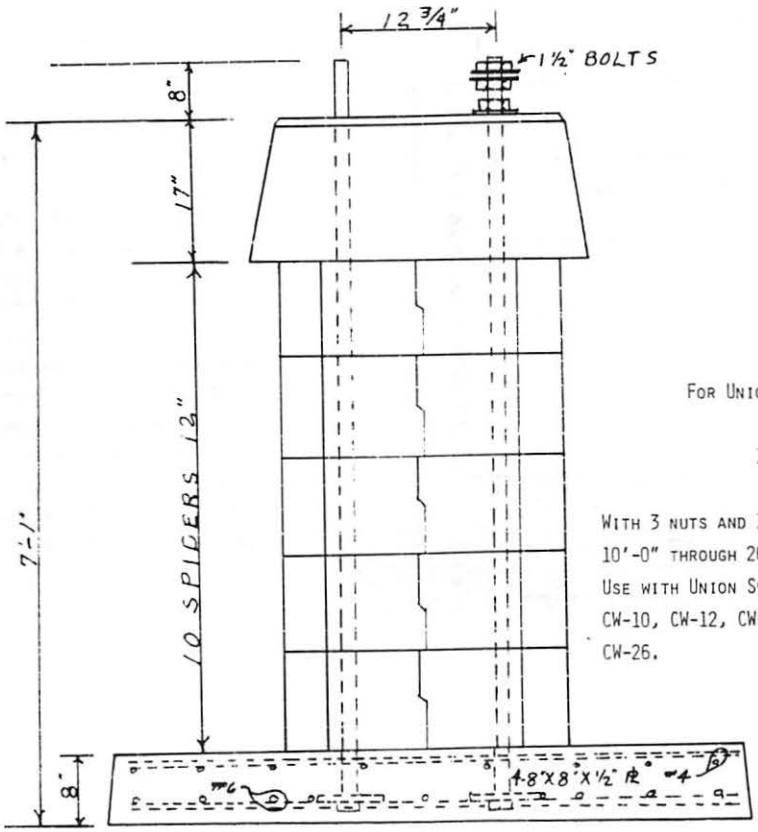

DP S - 10127 Foundation
For Union Switch & Signal Cantilever Foundation
Single Mast
12¾" x 12¾" Bolt Spacing
1½" Galv. Bolts
With 3 nuts and 3 washers for leveling
10'-0" through 26'-0" arm uses 7'-1" high foundations
Use with Union Switch & Signal cantilever Model no:
CW-10, CW-12, CW-14, CW-16, CW-18, CW-20, CW-22, CW-24, CW-26.

DPS-10127

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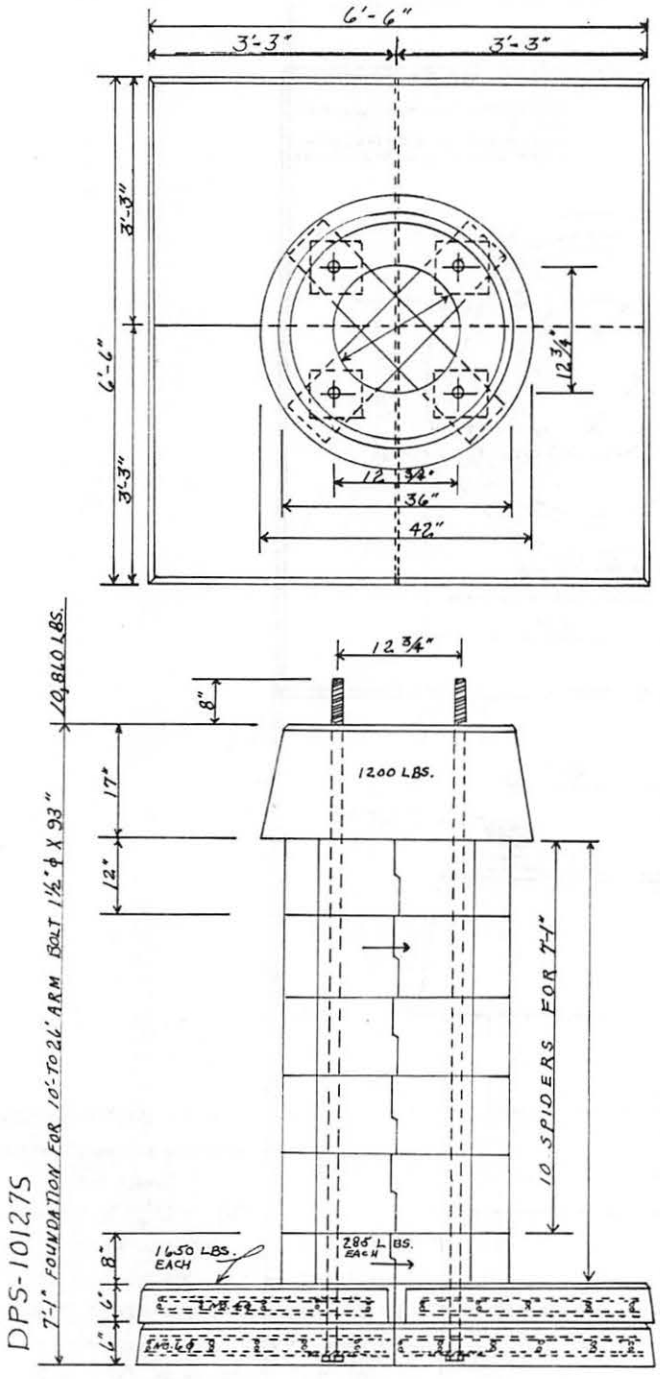

DPS-10127S

DP S - 10127S Foundation
For Union Switch & Signal Cantilever Foundation
Single Mast
12¾" x 12¾" Bolt Spacing
1½" Galv. Bolts

With 3 nuts and 3 washers for leveling
10'-0" through 26'-0" arm uses 7'-1" high foundations
Use with Union Switch & Signal Cantilever model no:
CW-10, CW-12, CW-14, CW-16, CW-18, CW-20, CW-22, CW-24, CW-26.
Same as S-10127 except with a four part sectional base, each piece 1650 lbs.

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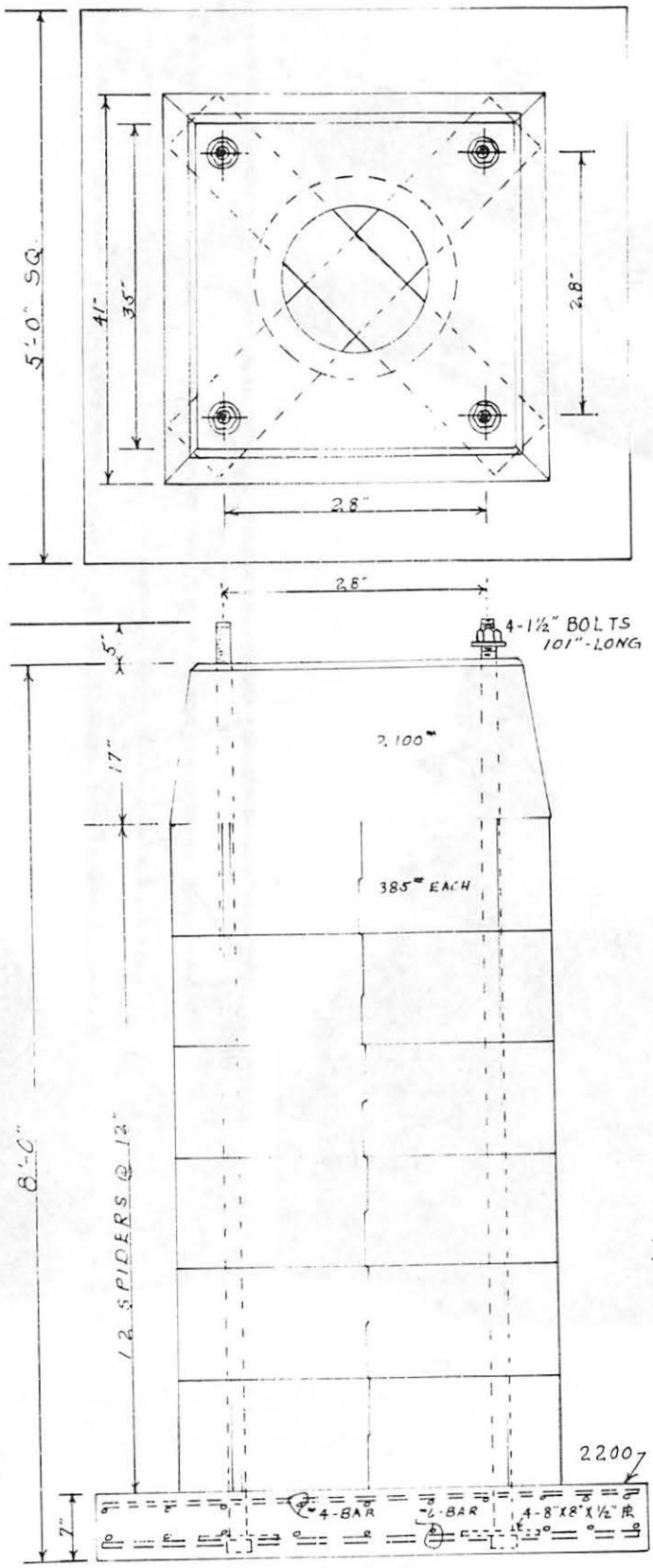
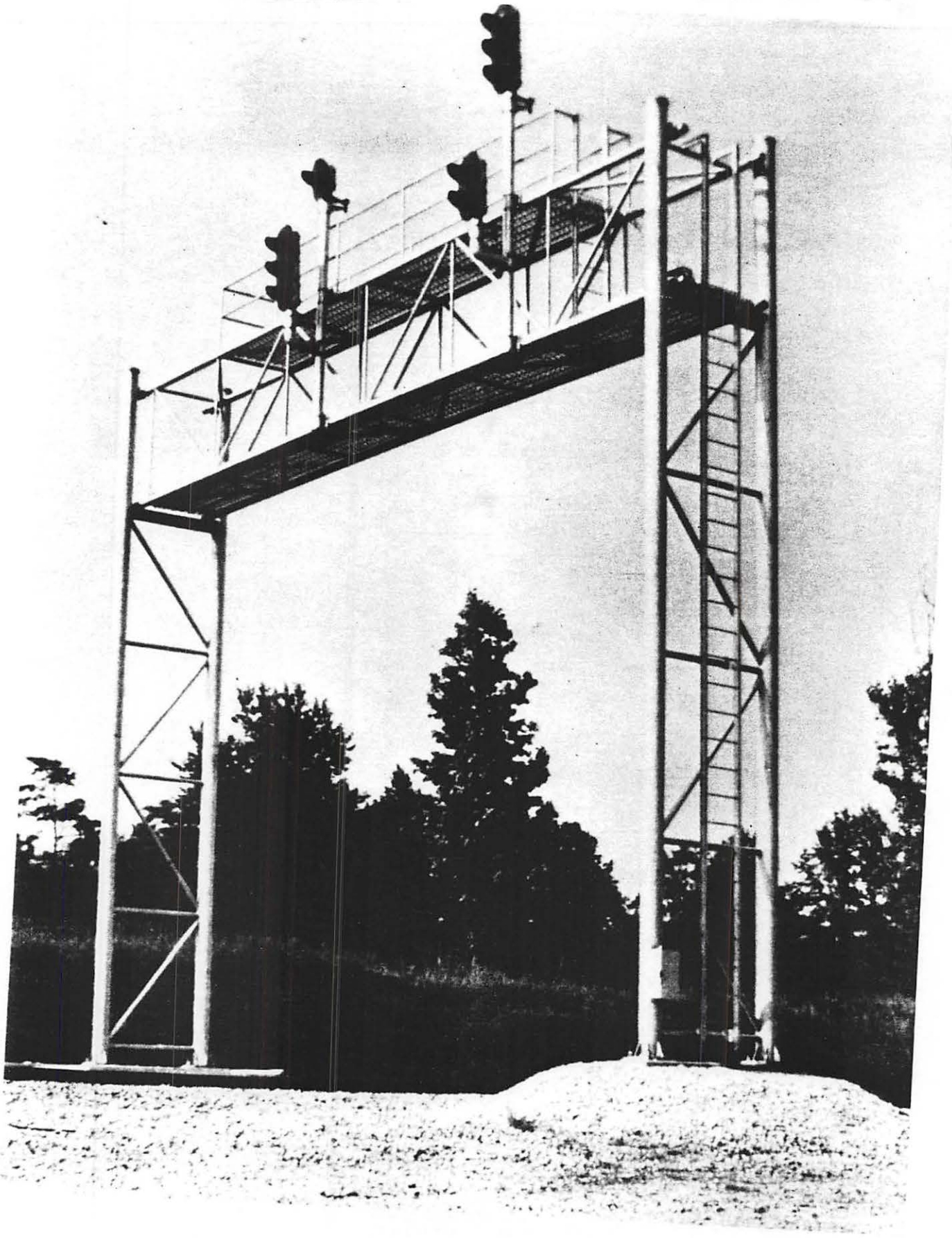
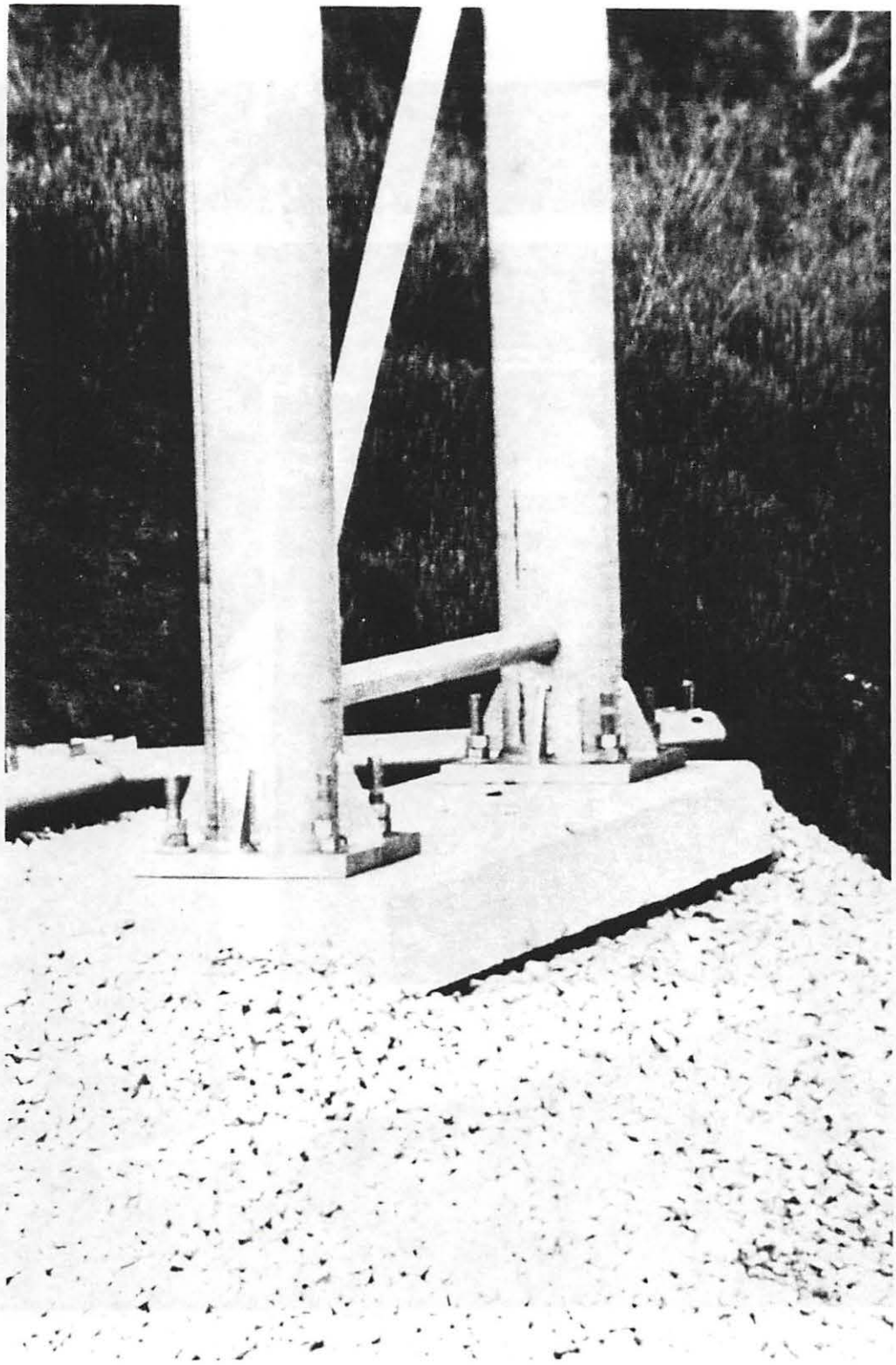
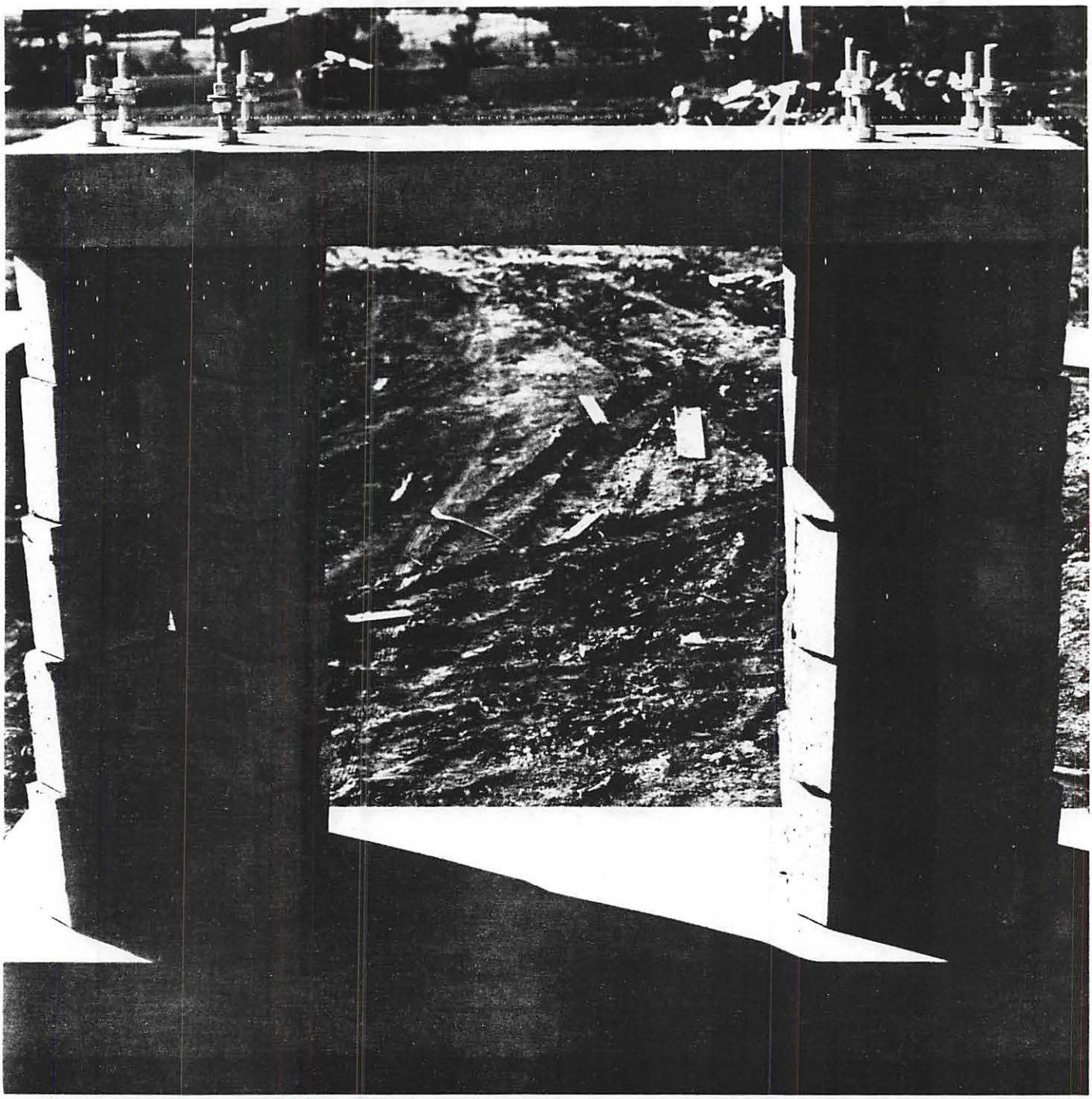


DPS-14

DP S - 14 FOUNDATION
LATTICE BRACKET POST
28" x 28" BOLT SPACING
1½" GALV. BOLTS x 100½" LONG
8'-0" HIGH
9120 LBS.







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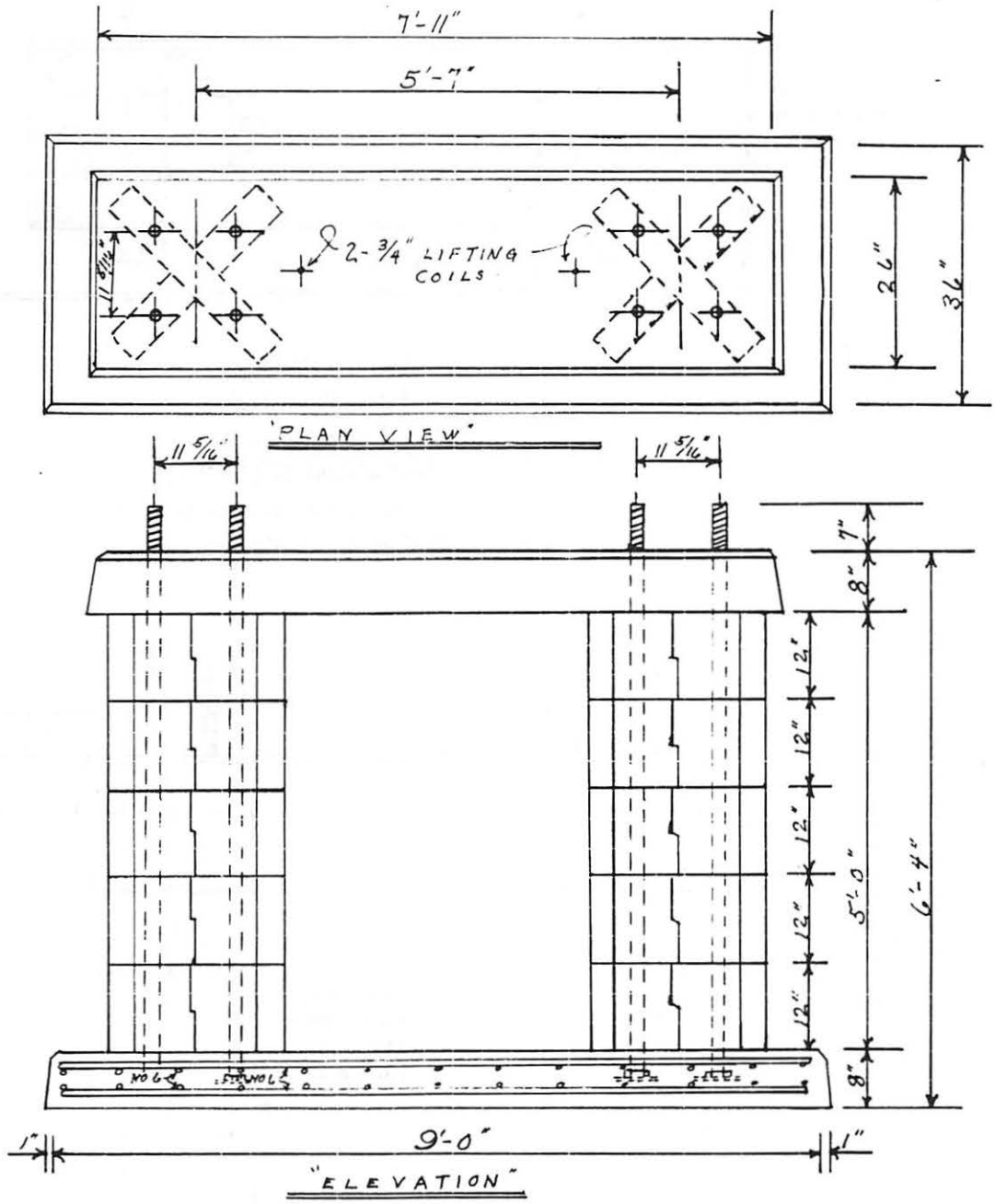
DPS - 16 x FOUNDATION

HIGHWAY TYPE TRUSS SIGNAL BRIDGE

BOLT SPACING $11\frac{5}{16}$" x $11\frac{5}{16}$" SET 5'-7" C-C WITH 2 SETS

4 BOLTS EACH 1¼" x 81 OVER ALL HEIGHT 6'-4" WEIGHT 7250



DPS-16X

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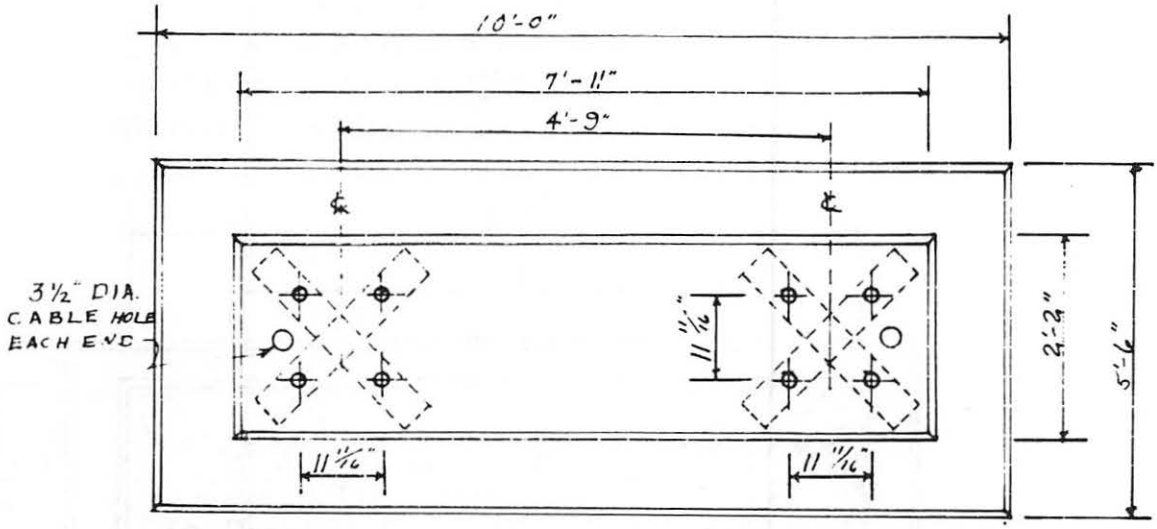
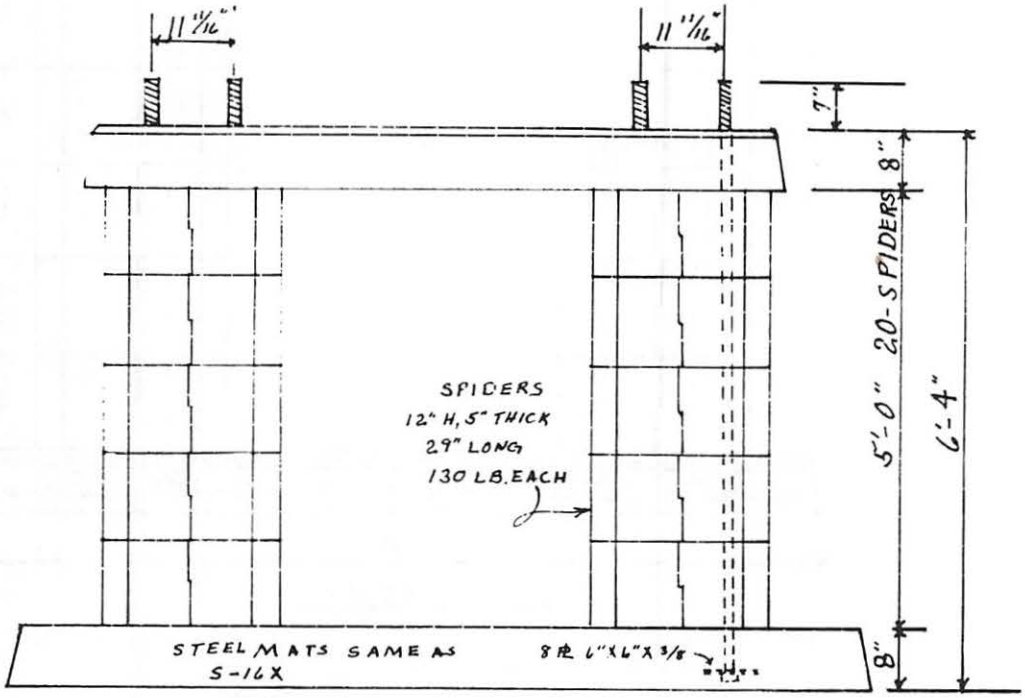


DP S - 17-70 FOUNDATION
BRIDGE FOUNDATION
70'-0" SPAN DOUBLE MAST
BOLT SPACING 11 11/16" x 11 11/16"
SET 4'-9" C-C WITH 2 SETS, 4 BOLTS EACH 1¼" x 83"
OVER ALL HIEGHT 6'-4" WEIGHT 20,400 LBS.



DPS-17-70

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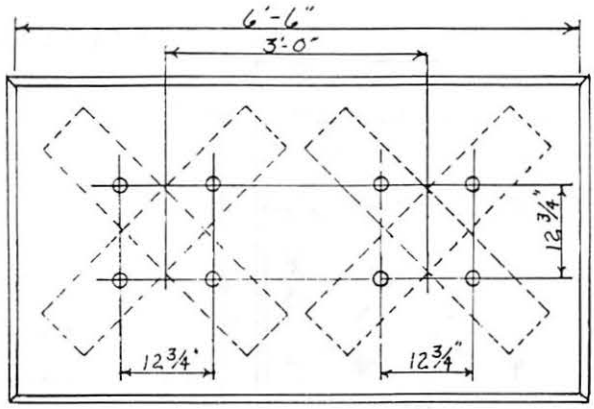

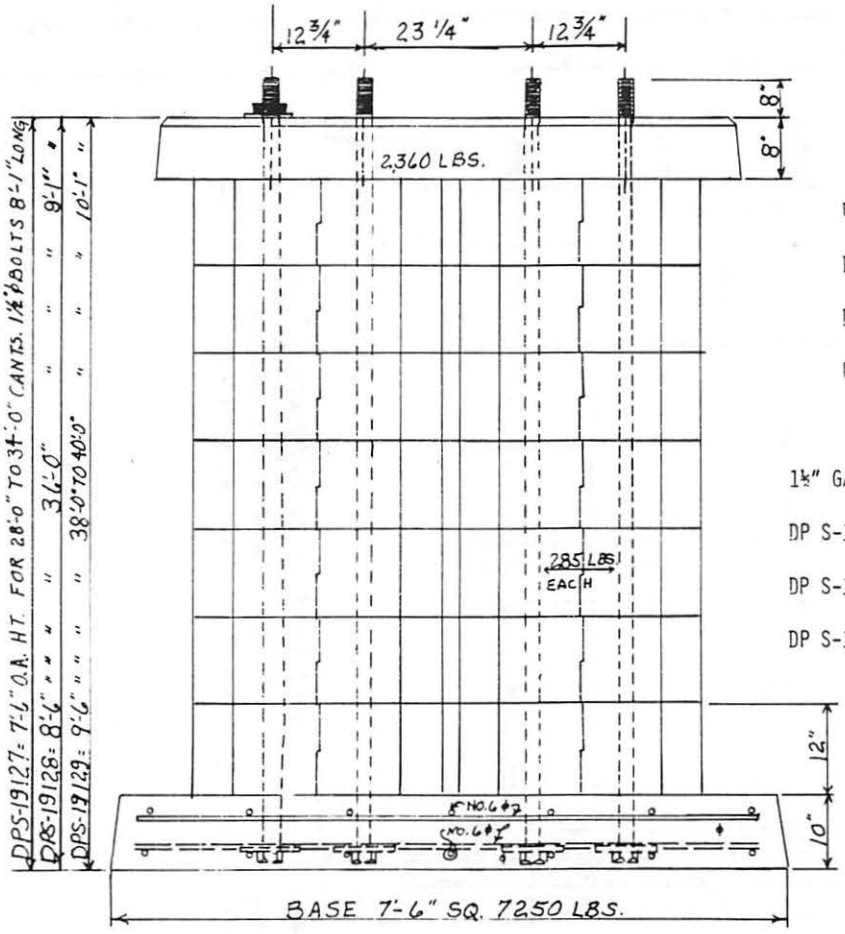

DP S-12127 FOUNDATION 7'-6" HIGH 16,730 LBS.

DP S-12128 FOUNDATION 8'-6" HIGH 17,900 LBS.

DP S-12129 FOUNDATION 9'-6" HIGH 19,230 LBS

UNION SWITCH & SIGNAL MAST WALKOUT CANTILEVER

BOLT SPACING 12&3/4" x 12&3/4"

1½" GALV. BOLTS WITH 3 NUTS AND 3 WASHERS FOR LEVELING.

DP S-12127 FOUNDATION 28'-0" THROUGH 34'-0" ARM LENGTH

DP S-12128 FOUNDATION 36'-0" ARM LENGTH

DP S-12129 FOUNDATION 38'-0" THROUGH 40'-0"ARM LENGTH

DP S-12127
DP S-12128
DP S-12129

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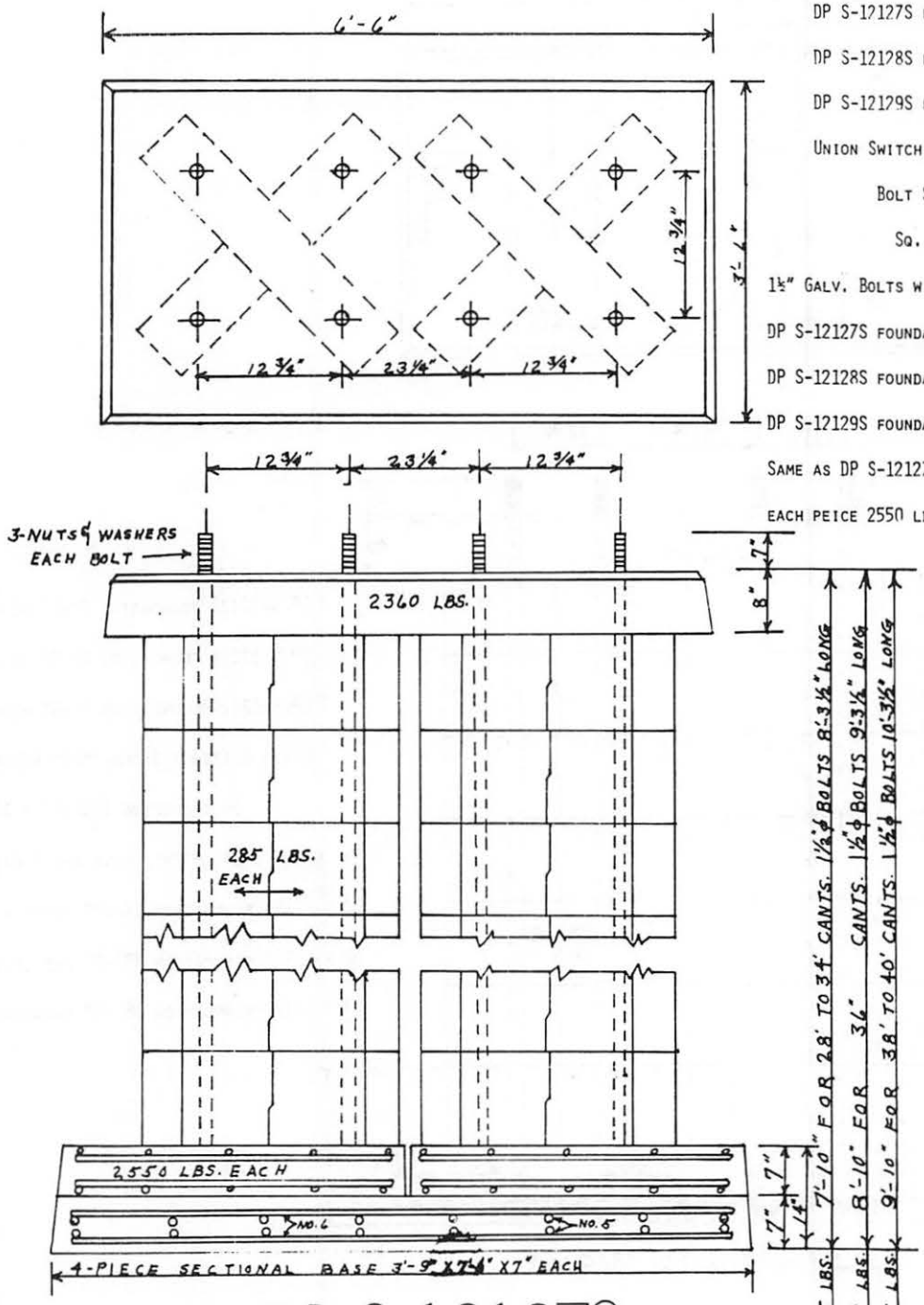

DP S-12127S FOUNDATION 7'-6" HIGH 19,695 LBS.

DP S-12128S FOUNDATION 8'-6" HIGH 20,860 LBS.

DP S-12129S FOUNDATION 9'-0" HIGH 22,195 LBS.

UNION SWITCH & SIGNAL MAST WALKOUT CANTILEVER

BOLT SPACING 12 3/4" x 12 3/4"

Sq. 2 SETS 3'-0" c-c

1½" GALV. BOLTS WITH 3 NUTS AND 3 WASHERS FOR LEVELING.

DP S-12127S FOUNDATION 28'-0" THROUGH 34'-0" ARM LENGTH

DP S-12128S FOUNDATION 36'-0" ARM LENGTH

DP S-12129S FOUNDATION 38'-0" THROUGH 40'-0" ARM LENGTH

SAME AS DP S-12127 EXCEPT WITH FOUR PART SECTIONAL BASE

EACH PEICE 2550 LBS.

DP S-12127S
DP S-12128S
DP S-12129S

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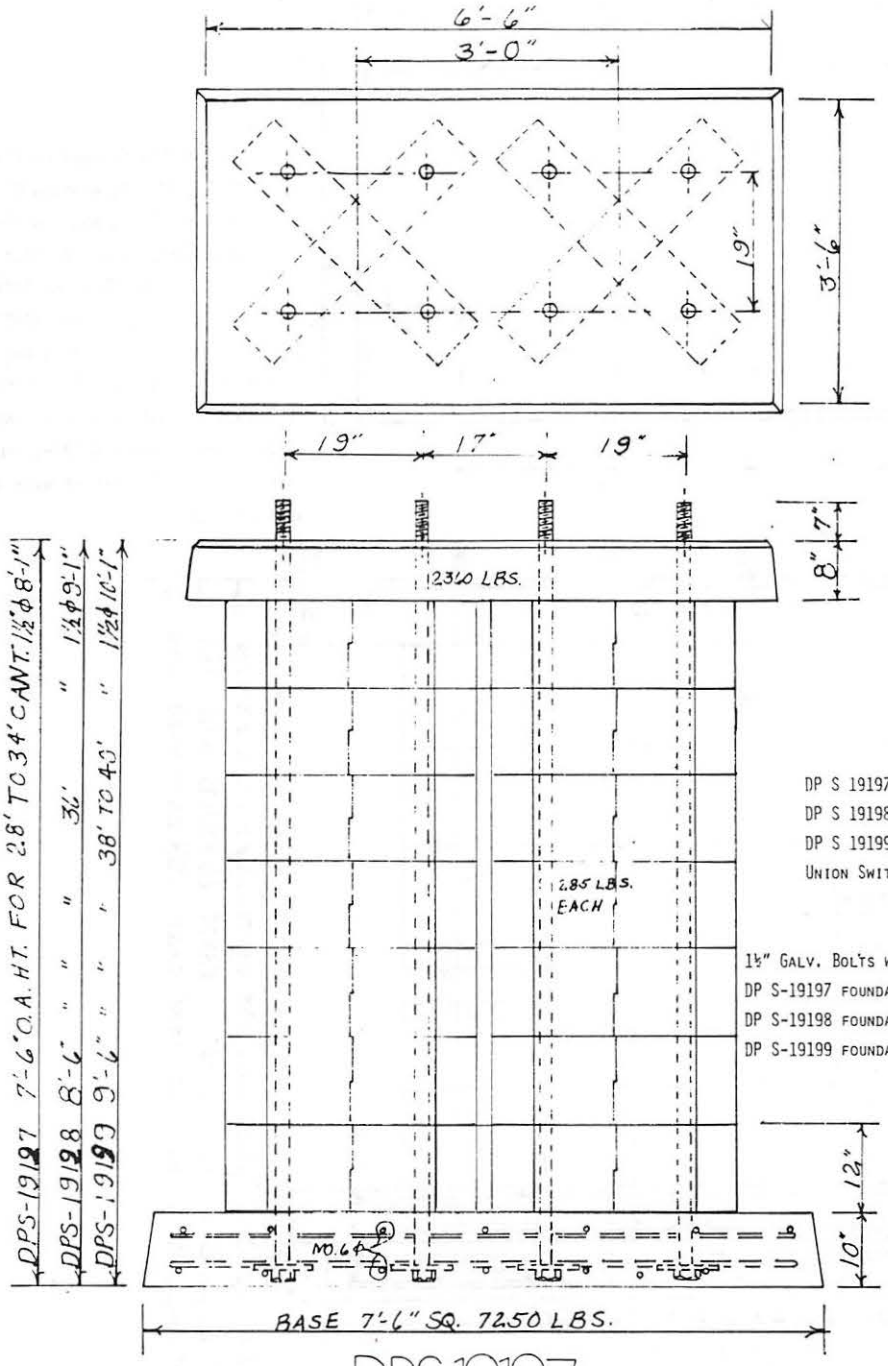

DP S 19197 FOUNDATION 7'-6" HIGH 16,730 LBS.
DP S 19198 FOUNDATION 8'-6" HIGH 17,900 LBS.
DP S 19199 FOUNDATION 9'-6" HIGH 19,230 LBS.
UNION SWITCH & SIGNAL MAST WALKOUT CANTILEVER
BOLT SPACING 19"x19"
SQ. 2 SETS 3'-0" C-C
1½" GALV. BOLTS WITH 3 NUTS AND 3 WASHERS.
DP S-19197 FOUNDATION 28'-0" THROUGH 34'-0" ARM
DP S-19198 FOUNDATION 36'-0" ARM
DP S-19199 FOUNDATION 38'-0" THROUGH 40'-0" ARM

DPS-19197
DPS-19198
DPS-19199

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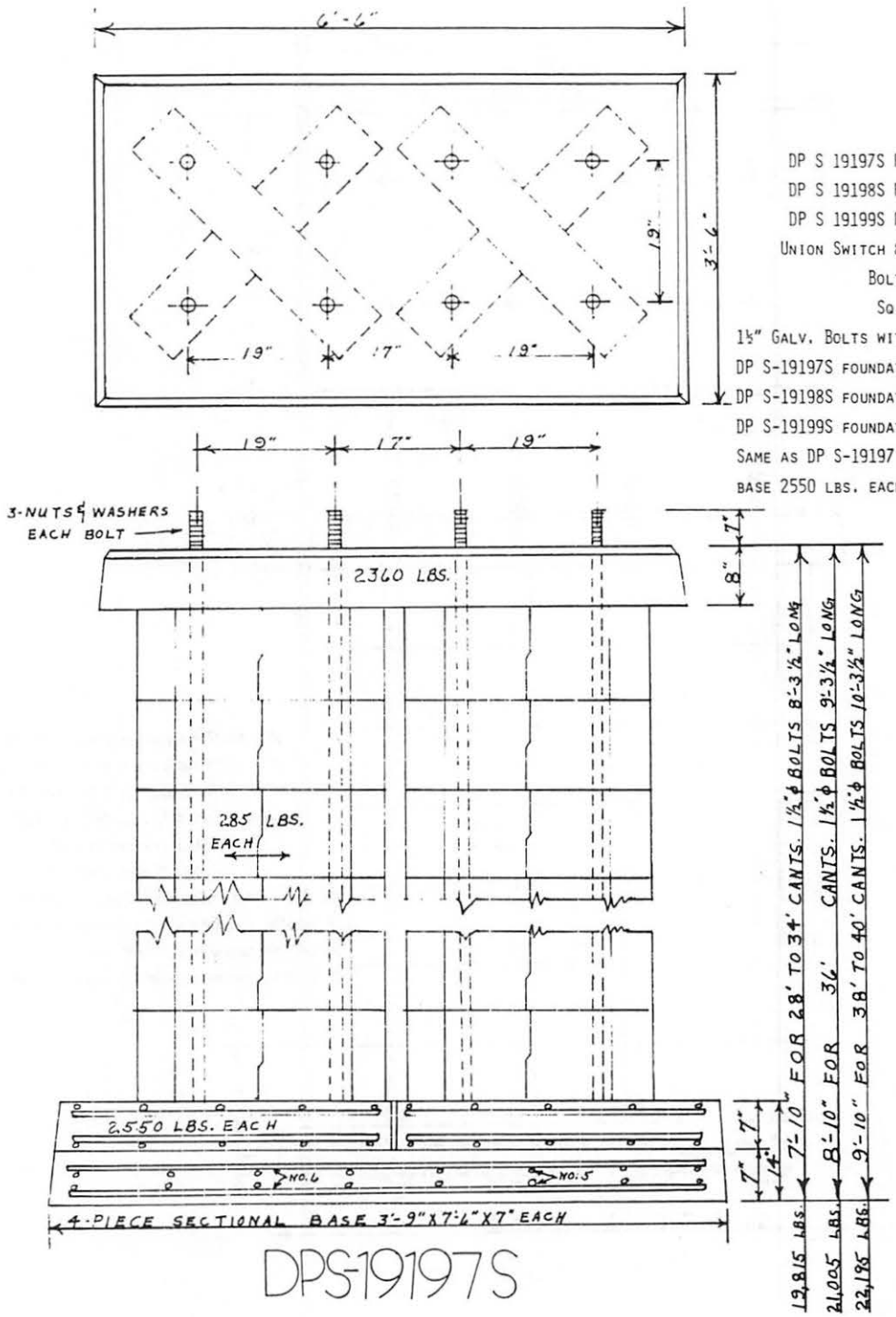
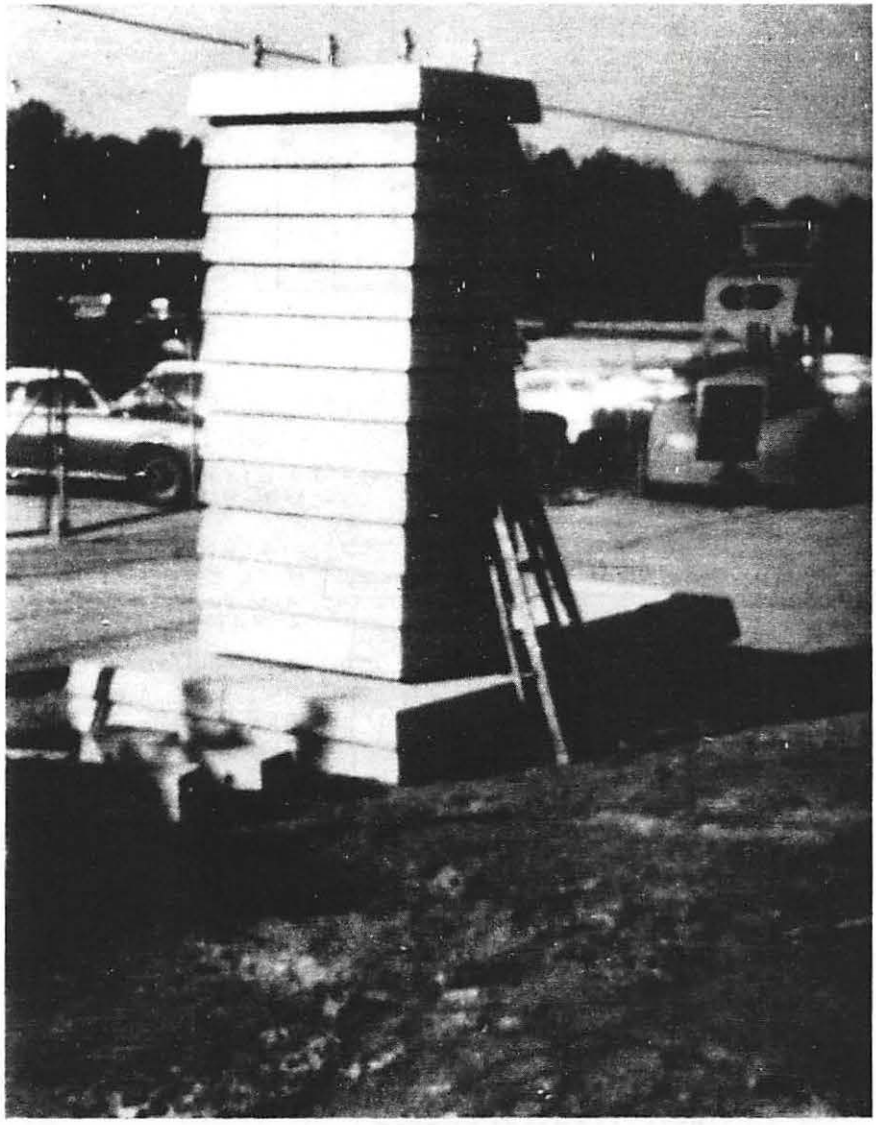


DP S 19197S Foundation 7'-6" high 19,695 lbs.
DP S 19198S Foundation 8'-6" high 20,860 lbs.
DP S 19199S Foundation 9'-6" high 22,195 lbs.
Union Switch & Signal Mast Walkout Cantilever
Bolt Spacing 19"x19"
Sq. 2 sets 3'-0" C-C
1½" Galv. Bolts with 3 nuts and 3 washers.
DP S-19197S foundation 28'-0" through 34'-0" arm
DP S-19198S foundation 36'-0" arm
DP S-19199S foundation 38'-0" through 40'-0" arm
Same as DP S-19197 except with 4 part sectional base 2550 lbs. each.

DPS-19197S
DPS-19198S
DPS-19199S



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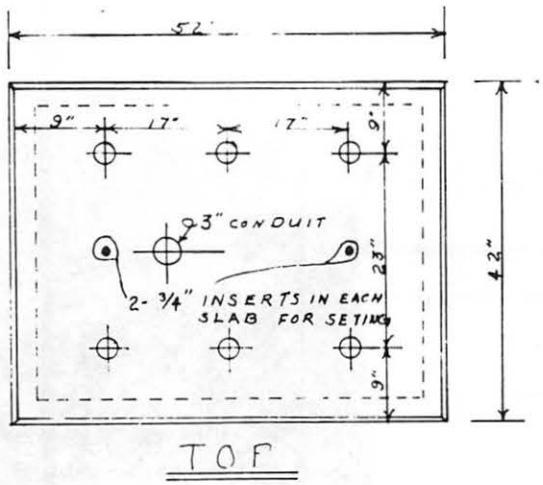

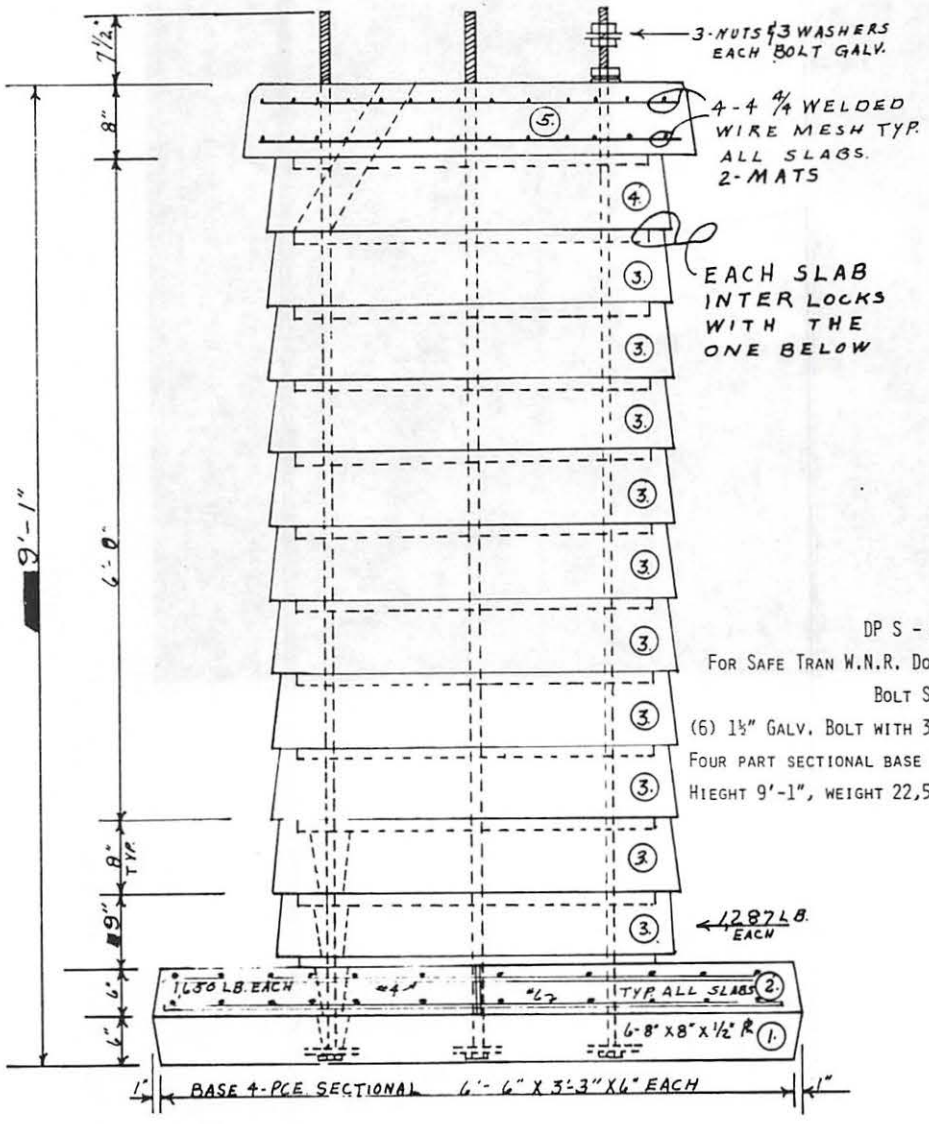

DP S - 2317 Foundation
For Safe Tran W.N.R. Double Mast Walkout Cantilever
Bolt Spacing 23" x 17"
(6) 1½" Galv. Bolt with 3 nuts and 3 washers for leveling
Four part sectional base 1,650 lbs. each
Hieght 9'-1", weight 22,530 lbs.

DPS-2317

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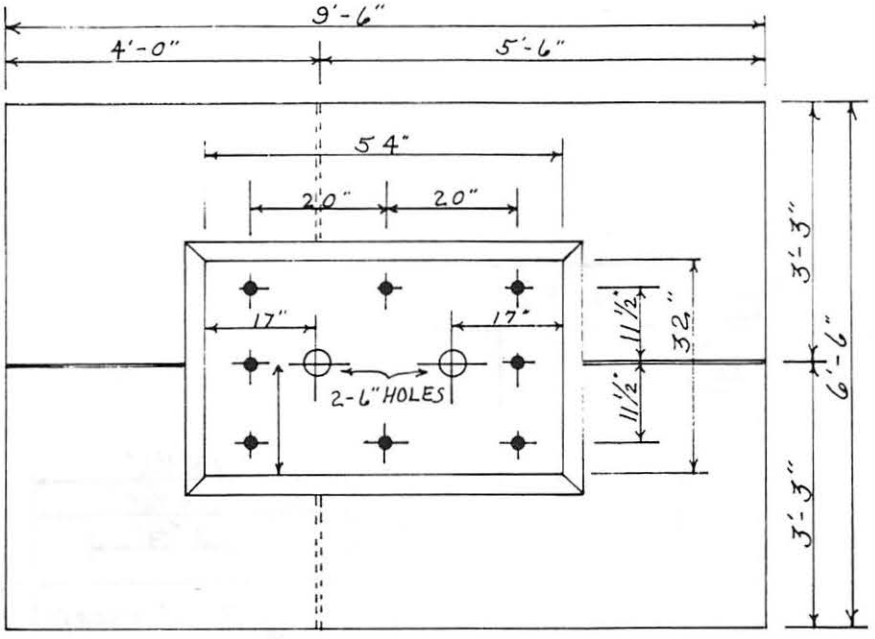
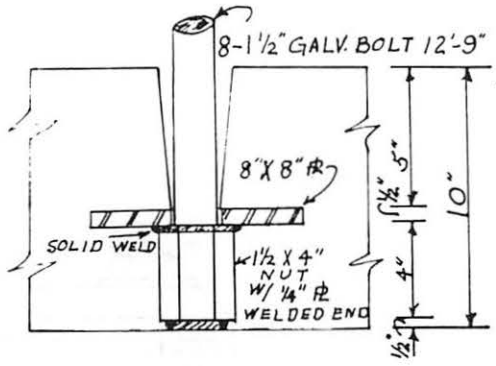
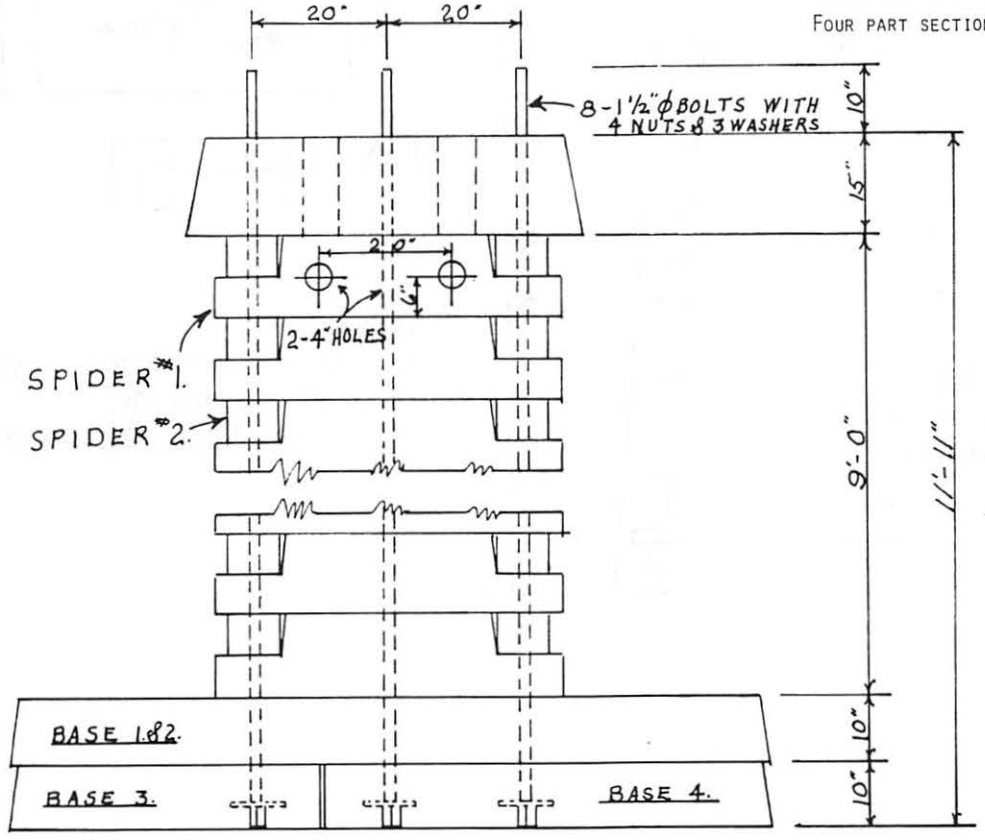




DP S - 4023 Foundation
For Safe Tran Butterfly T" Signal
Bolt Spacing 20"x20" & 11½"x11½"
Eight 1½" Galv. Bolts with 4 nuts and 3 washers per bolt for leveling.
Height 12'-0", weight 28,810 lbs
Four part sectional base for easier handeling.



DP S-4023

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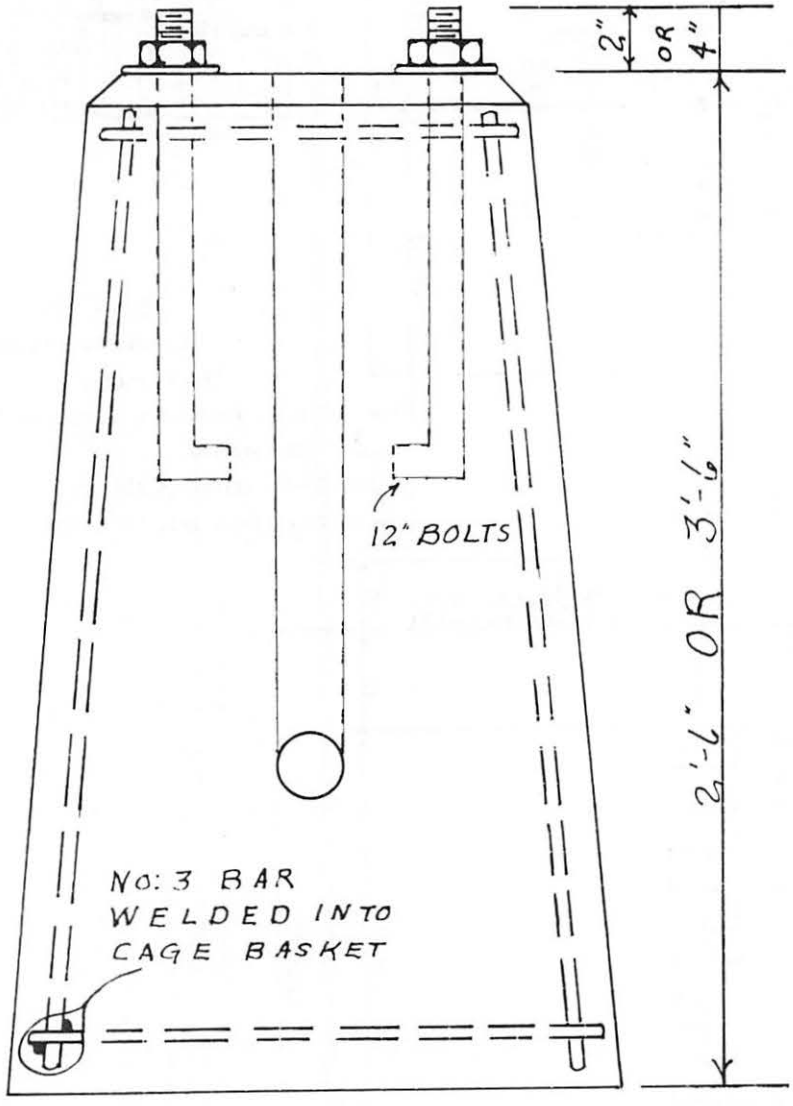

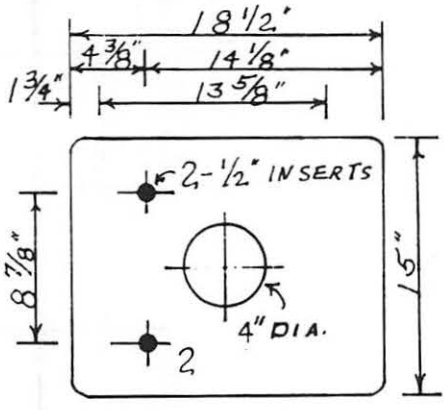

DPH-151

HEIGHT 2'6"
FOR DP 25 SWITCH CIRCUIT CONTROL
RELAY AND JUNCTION BOX.
TWO ½" GALV. BOLTS, NUTS & WASHERS.

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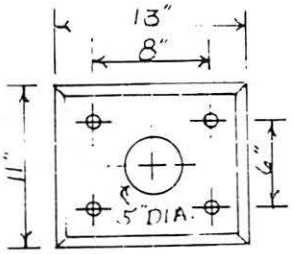
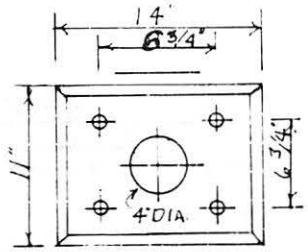
(404) 944-1930



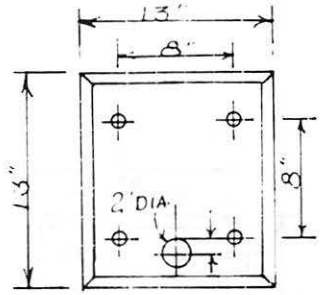
DPH-11

HEIGHT 3'6"
FOR US&S ES-10 SWITCH LAMP PLATE B-3500
OR G.R.S. TYPE "P" SWITCH SIGNAL PLATE 2801
FOUR 3/4" GALV. BOLTS, NUTS & WASHERS.



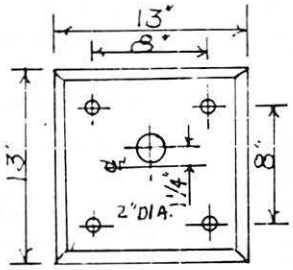
DPH-112

HEIGHT 3'6"
FOR G.R.S. TYPE "FA" COLORLIGHT
DWARF SIGNAL PLATES H-2409 & 2411
FOUR 3/4" GALV. BOLTS, NUTS & WASHERS.



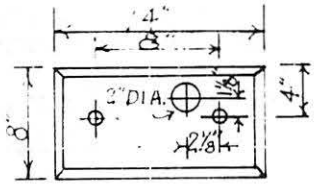
DPH-133

HEIGHT 2'6"
CABLE ENTRANCE 5" OFF CENTER &
SLOPES IN.
WITH FOUR 3/4" GALV. BOLTS
NUTS & WASHERS.



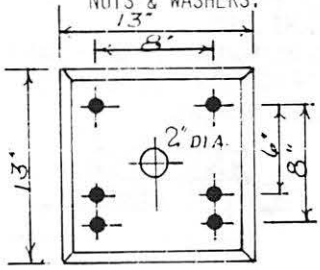
DPH-131

HEIGHT 2'6"
FOR SEARCHLIGHT, "SA" SIGNALS.
WITH FOUR 3/4" GALV. BOLTS
NUTS & WASHERS



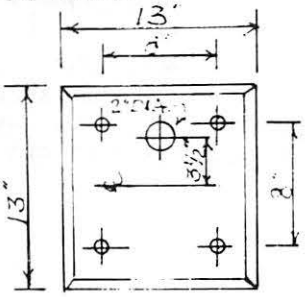
DPH-12

HEIGHT 3'0" FOR US&S CO.
TYPE "N" & "N-2" COLOR LIGHT
SIGNAL. WITH TWO 3/4" GALV.
BOLTS, NUTS & WASHERS.
(SOME MODELS OF N-2 REQUIRE
5/8" BOLTS, REQUEST IF REQUIRED)



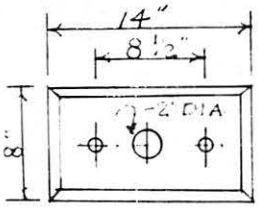
DPH-135

HEIGHT 3'6" 3/4" INSERTS
FOR 6"x8" OR 8"x8" SPACING.
USED FOR CABLE POST & DWARF SIGNALS.
FOUR 3/4" GALV. BOLTS, NUTS & WASHERS



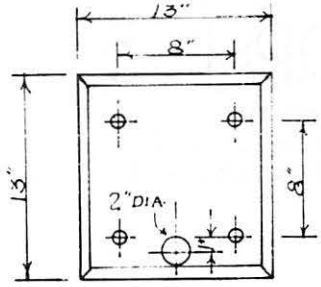
DPH-132

HEIGHT 3'6"
FOR US&S CO. TYPE H-5
WITH FOUR 3/4" GALV. BOLTS
NUTS & WASHERS.



DPH-121

HEIGHT 3'0"
FOR DWARF SIGNAL GRS COLORLIGHT
STYLE "ME"
WITH TWO 3/4" GALV.BOLTS,NUTS,
& WASHERS.



DPH-134

HEIGHT 3'6"
CABLE ENTRANCE 5" OFF CENTER &
SLOPES IN.
WITH FOUR 3/4" GALV. BOLTS
NUTS & WASHERS.

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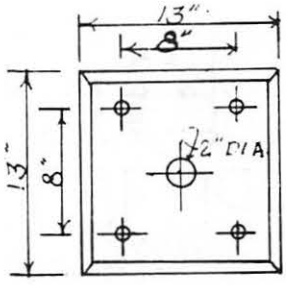
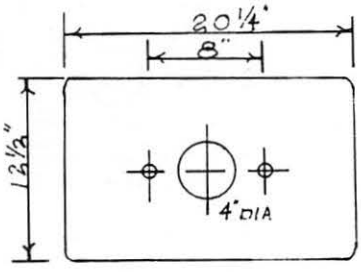
(404) 944-1930



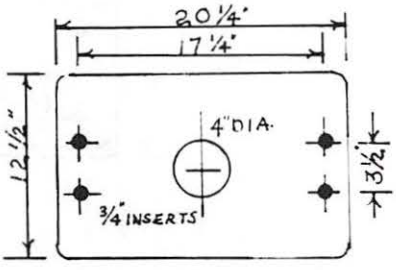
DPH-13

HEIGHT 2'6"
FOR SEARCHLIGHT, "SA" SIGNALS.
WITH FOUR 3/4" GALV. BOLTS
NUTS & WASHERS.



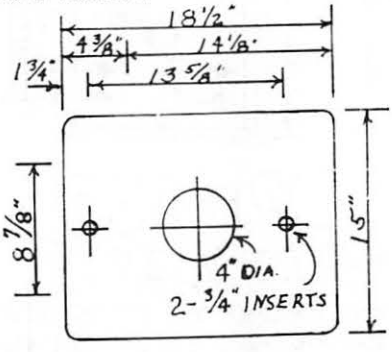
DPH-14

HEIGHT 2'6" FOR TYPE "N" &"N2" COLORLIGHT
FOR "TN" & "TN-2" BOLT SPACING IS 12" c-c.
ALSO FOR E 0943 CASE.
TWO 3/4" GALV. BOLTS, NUTS & WASHERS.



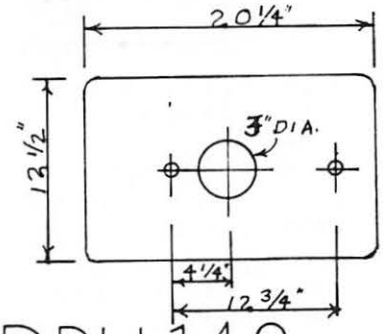
DPH-141

HEIGHT 2'6"
FOR POSITION LIGHT DWARF SIGNAL.
US&S CO. PLATE B2425 OR GRS PLATE 3105
FOUR 3/4" GALV. CAP SCREWS.



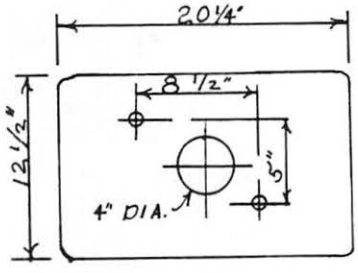
DPH-15

HEIGHT 2'6"
FOR US&S CO. PLATE C 2771
TWO 3/4" GALV. BOLTS, NUTS & WASHERS.



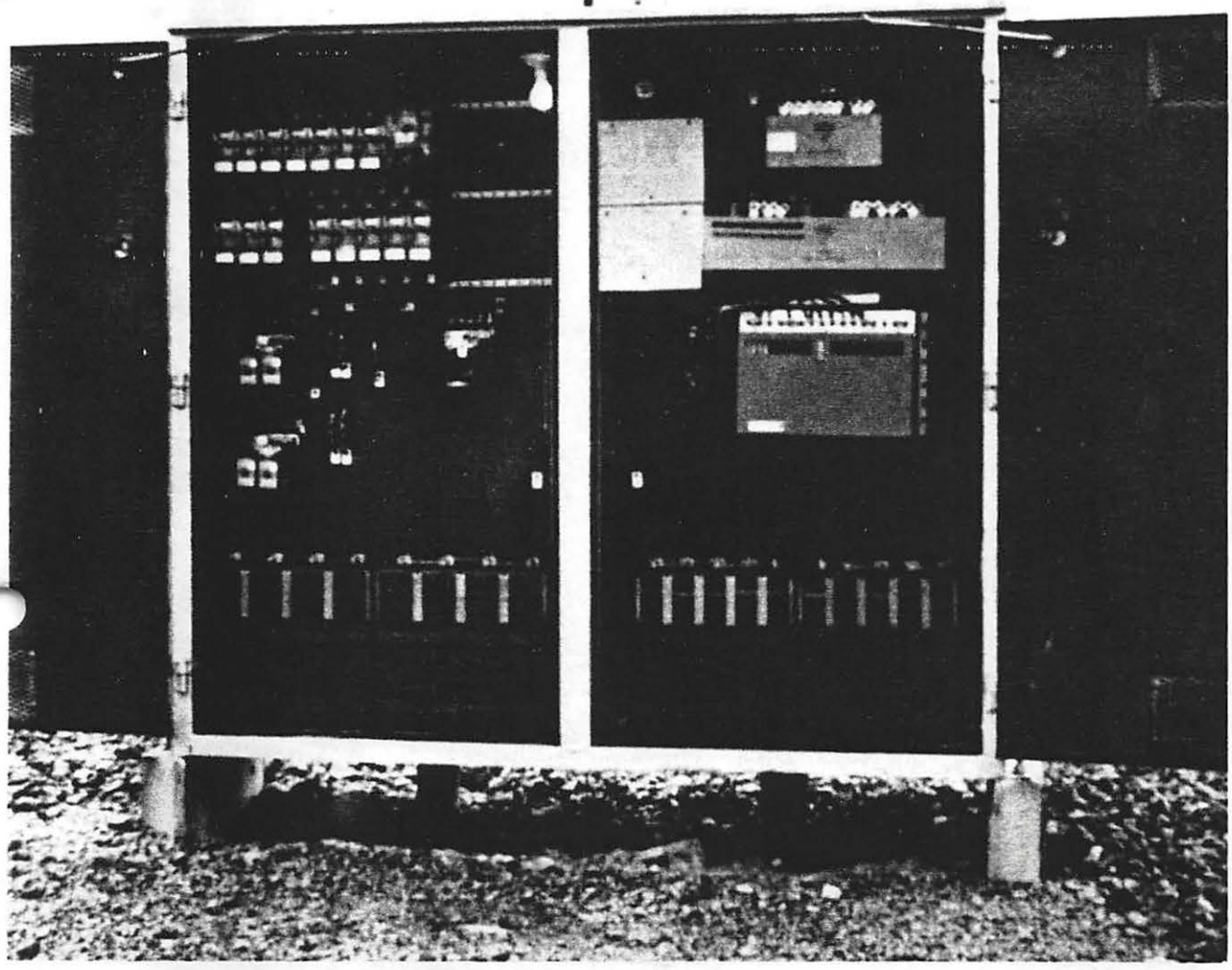
DPH-143

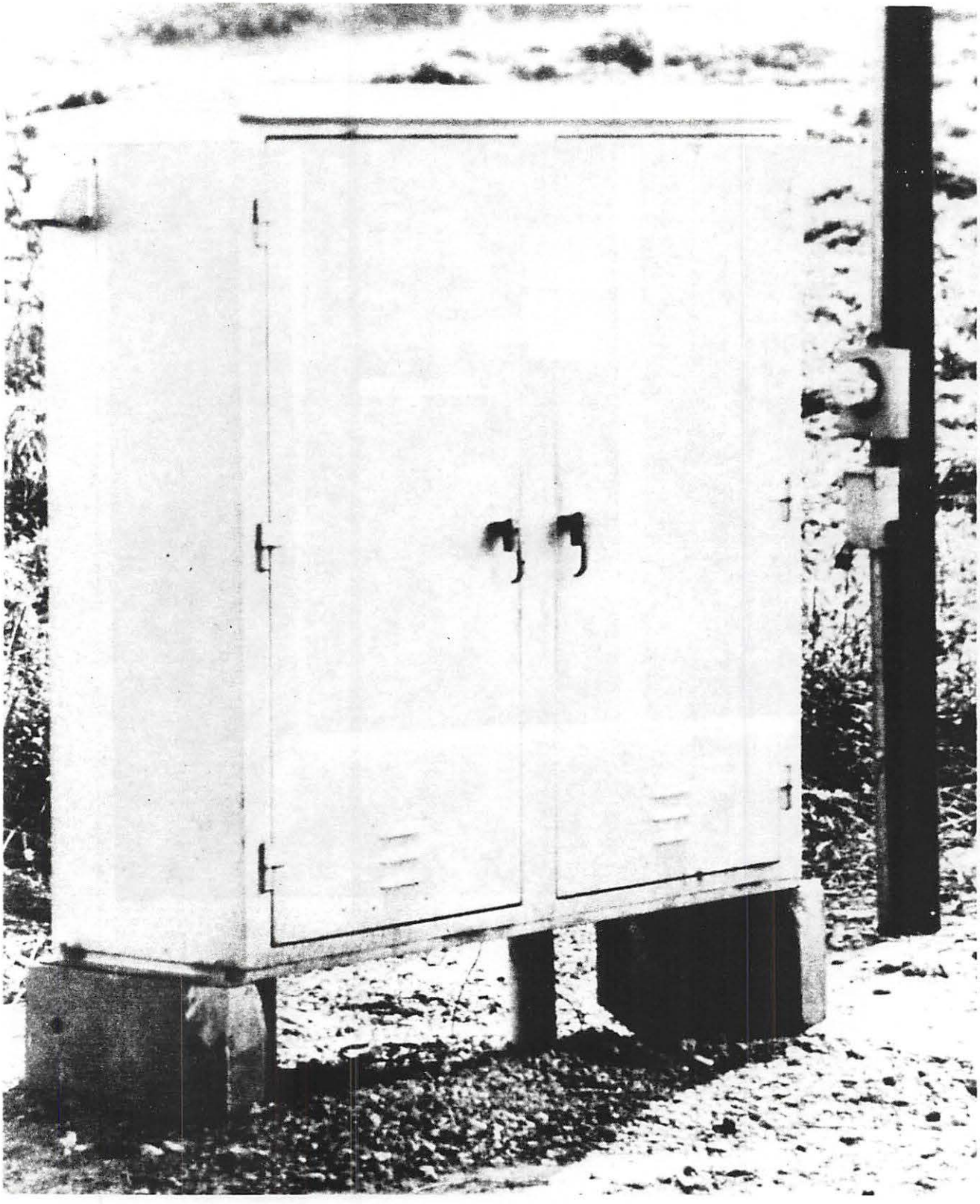
HEIGHT 2'6"
FOR US&S CO. 12 3/4" c-c.
ELECTRIC SWITCH LAMP 20. PLAN B-3510.
TWO 3/4" GALV. BOLTS, NUTS & WASHERS.

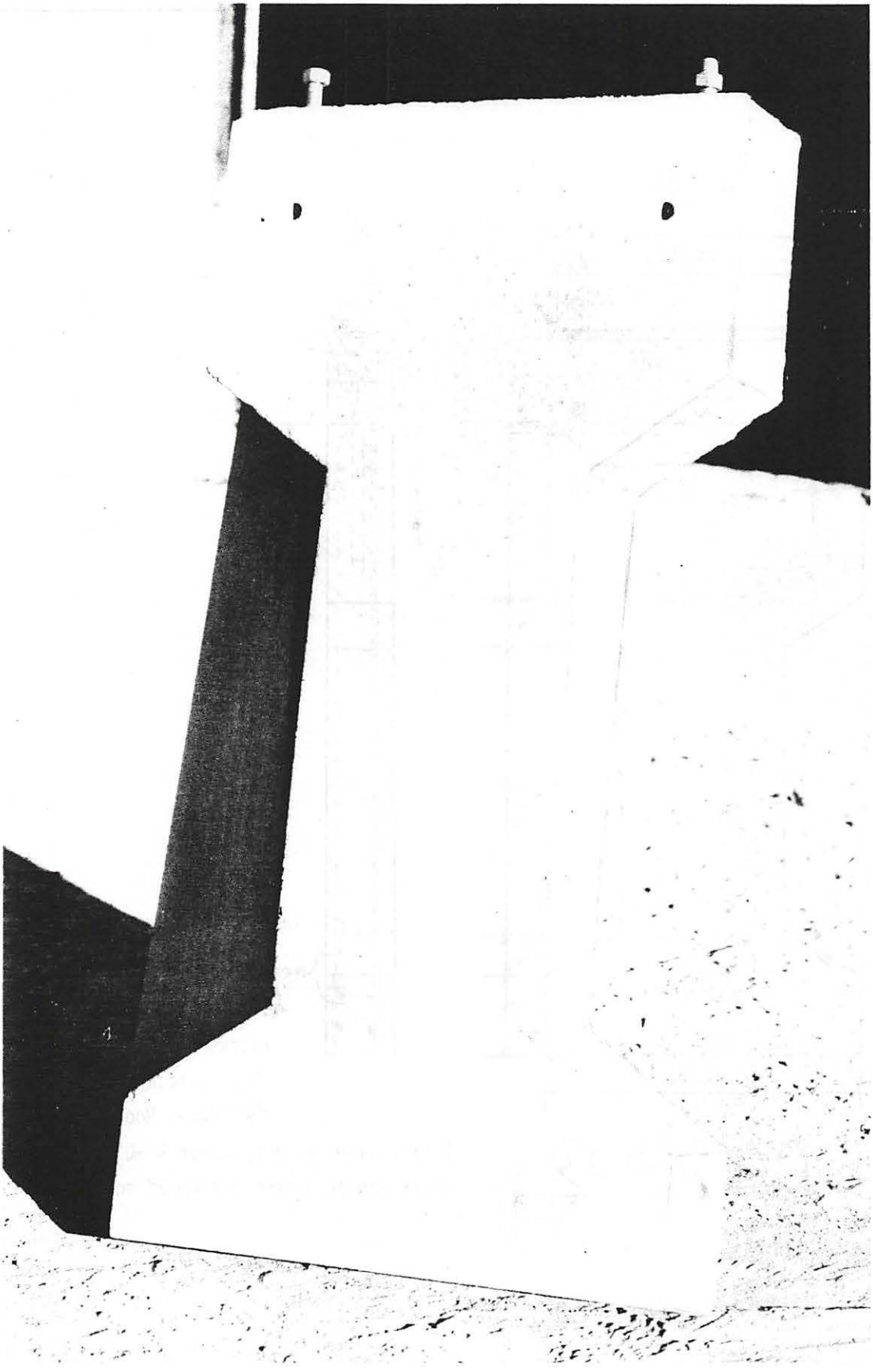


DPH-144

HEIGHT 2'6" 10" c-c
FOUR LIGHT BRACKET MOUNTING INSERTS ON FACE
4" x 12 3/4" CENTERED 5" FROM TOP.
SIX 3/4" GALV. BOLTS, NUTS & WASHERS.







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4170 ANGELETTE DRIVE AUSTELL, GEORGIA 30001
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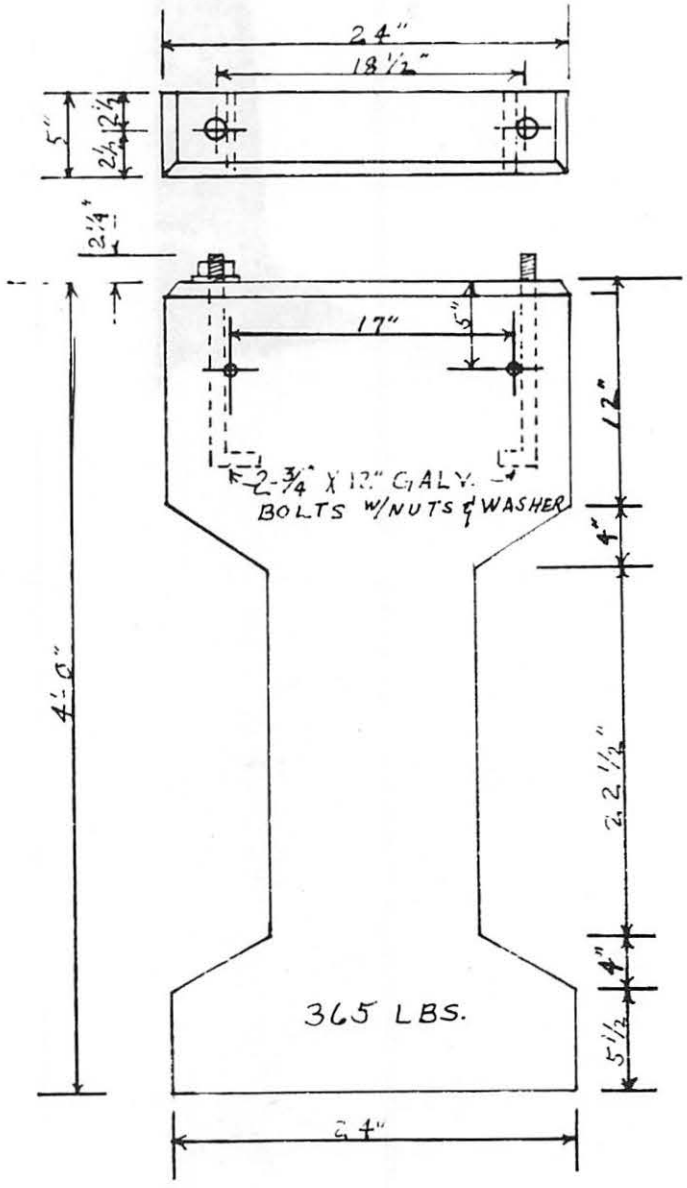

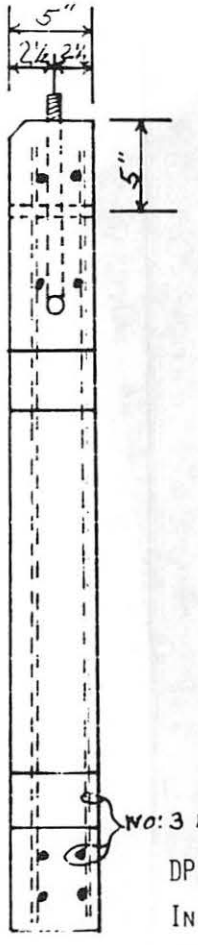

DP AP - 392 FOUNDATION
INSTRUMENT CASE PIERS
BOLT SPACING 18½"
¾" GALV. HOOK BOLT

DPA P-392

2 EXT. WITH NUT AND WASHER 4'-0" HIGH WEIGHT 365 LBS.
BOLTS CAN BE EXTENDED FROM 2" TO 5" PLEASE SPECIFY

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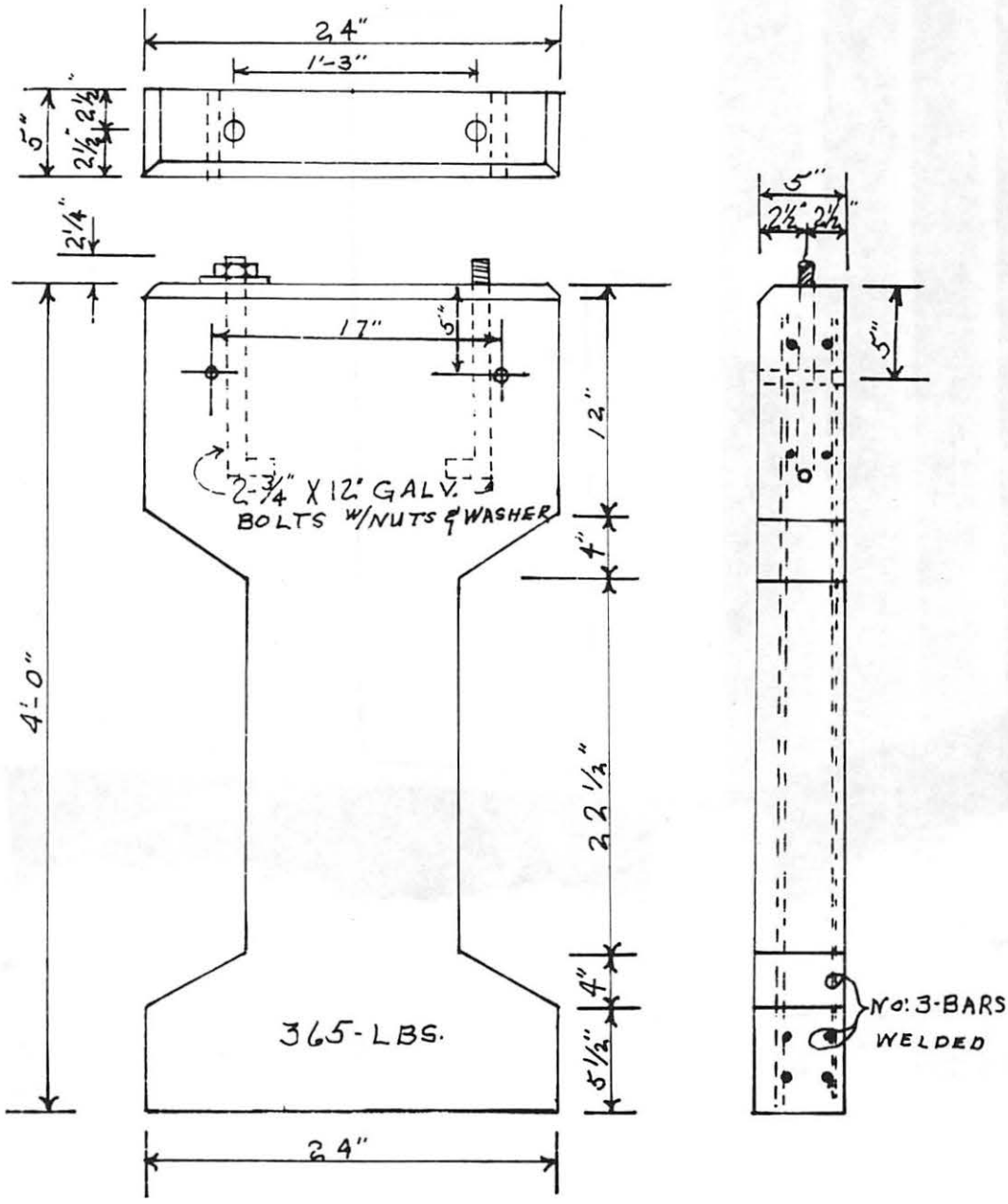
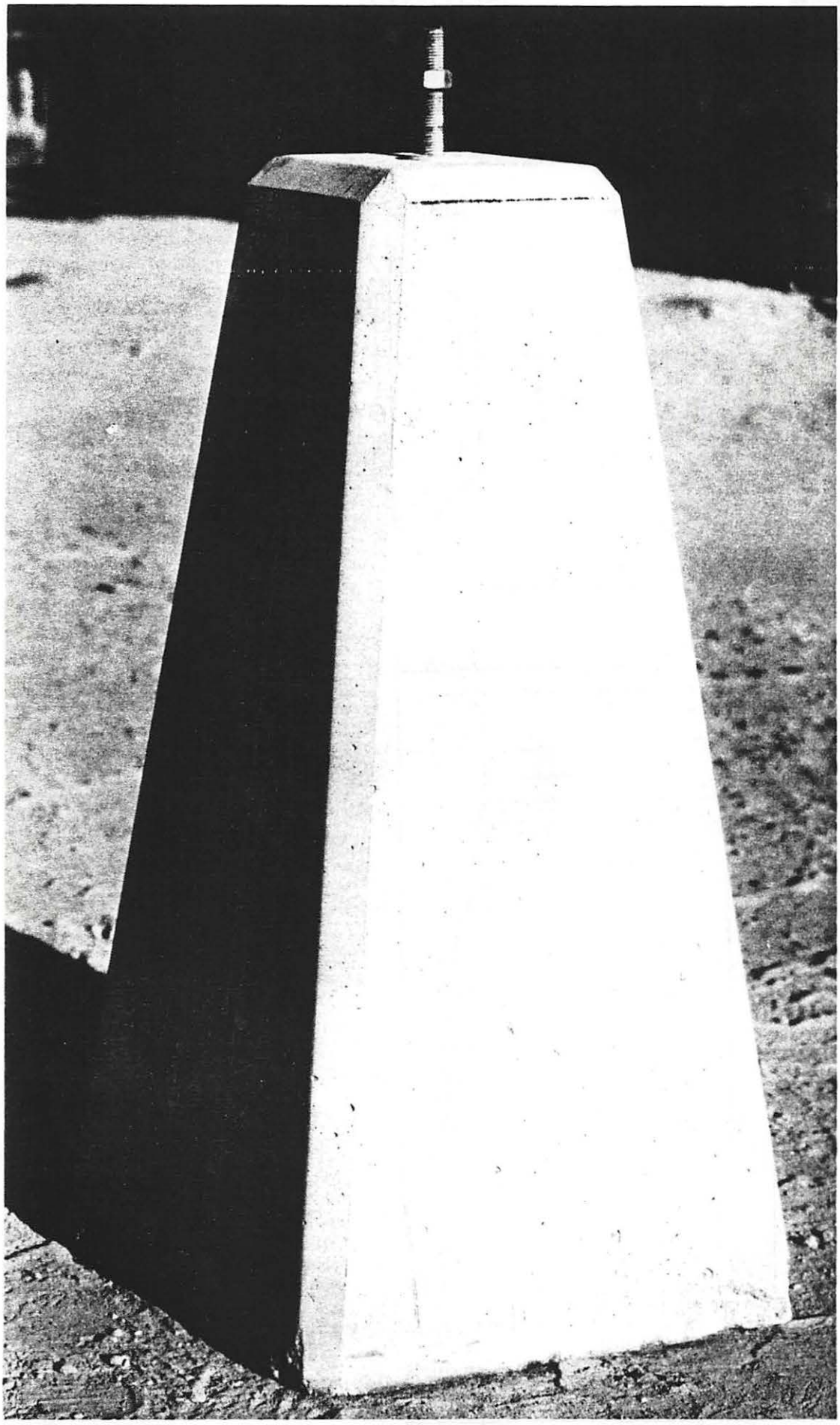
4170 ANGELETTE DRIVE AUSTELL, GEORGIA 30001
(404) 944-1930

DP AP - 392 - 1 FOUNDATION
INSTRUMENT CASE PIERS
BOLT SPACING 15"
3/4" GALV. HOOK BOLTS
2 EXT. WITH NUT AND WASHER 4'-0" HIGH, WEIGHT 365 LBS.
BOLTS CAN BE EXTENDED FROM 2" TO 5" PLEASE SPECIFY



DPAP-392-1



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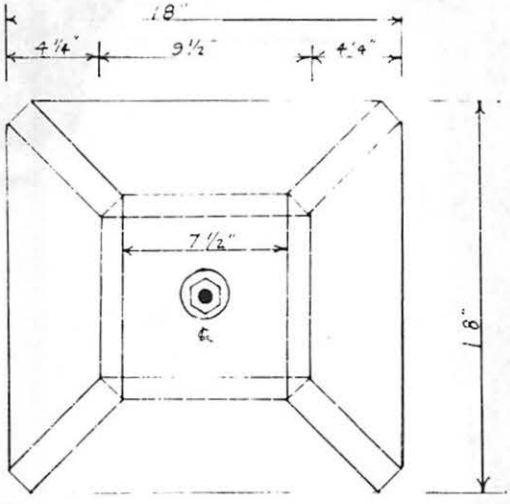
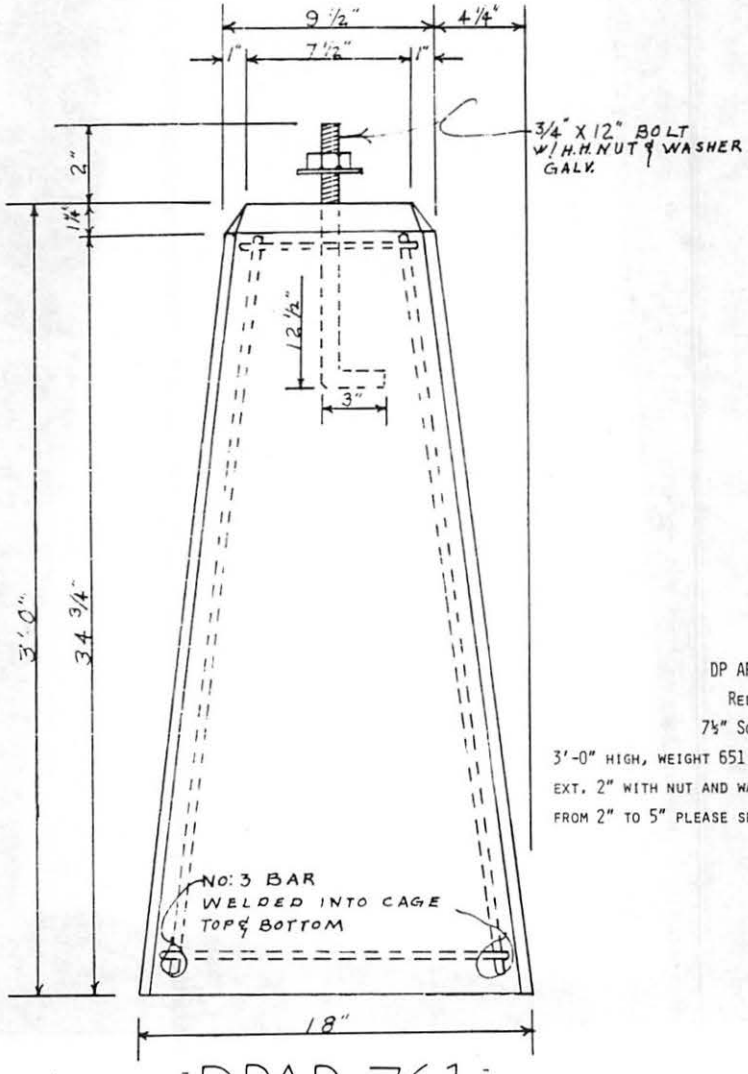
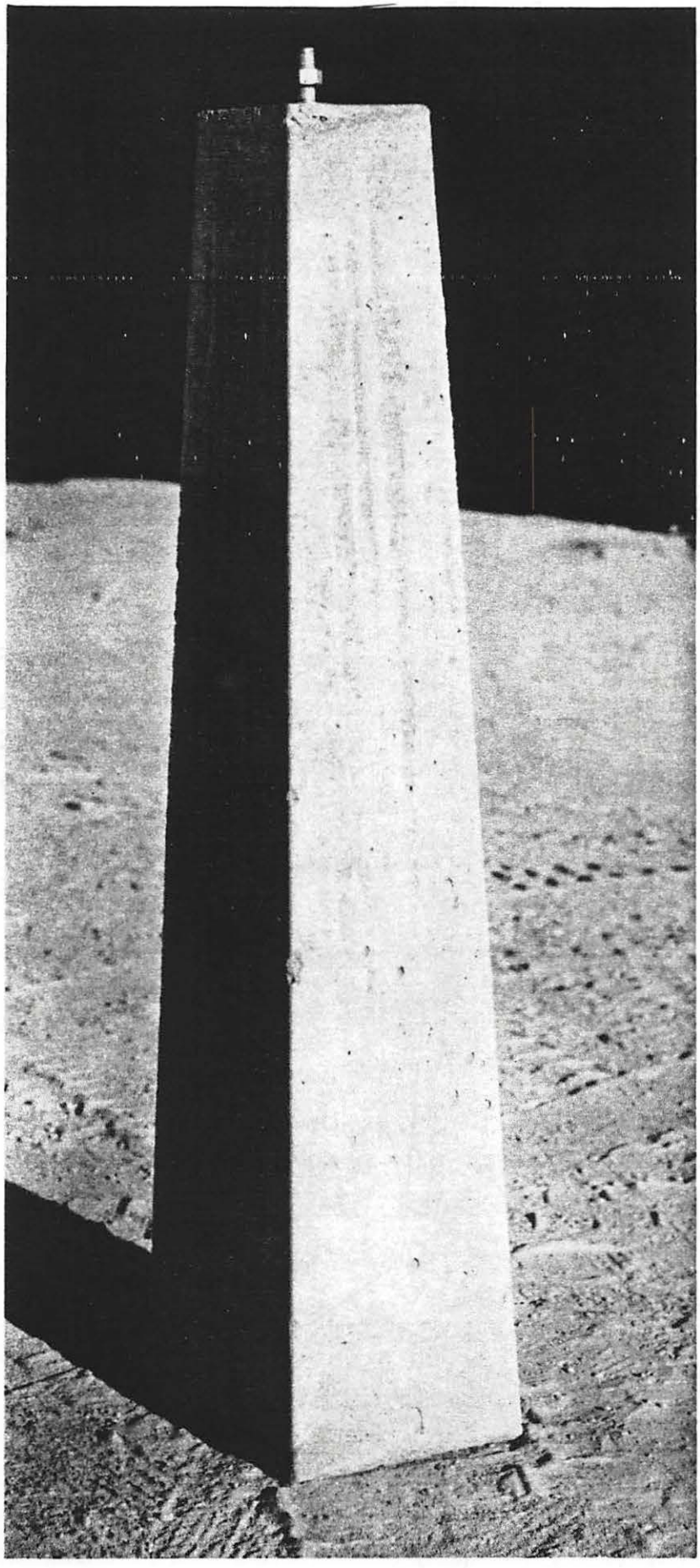


PLAN VIEW



DP AP - 761 FOUNDATION
RELAY HOUSE PIER
7½" SQ. TOP TO 18" SQ BOTTOM
3'-0" HIGH, WEIGHT 651 LBS. ¾" GALV. HOOK BOLTS EXT. 2" WITH NUT AND WASHER. BOLTS CAN BE EXTENDED FROM 2" TO 5" PLEASE SPECIFY.

DPAP-761



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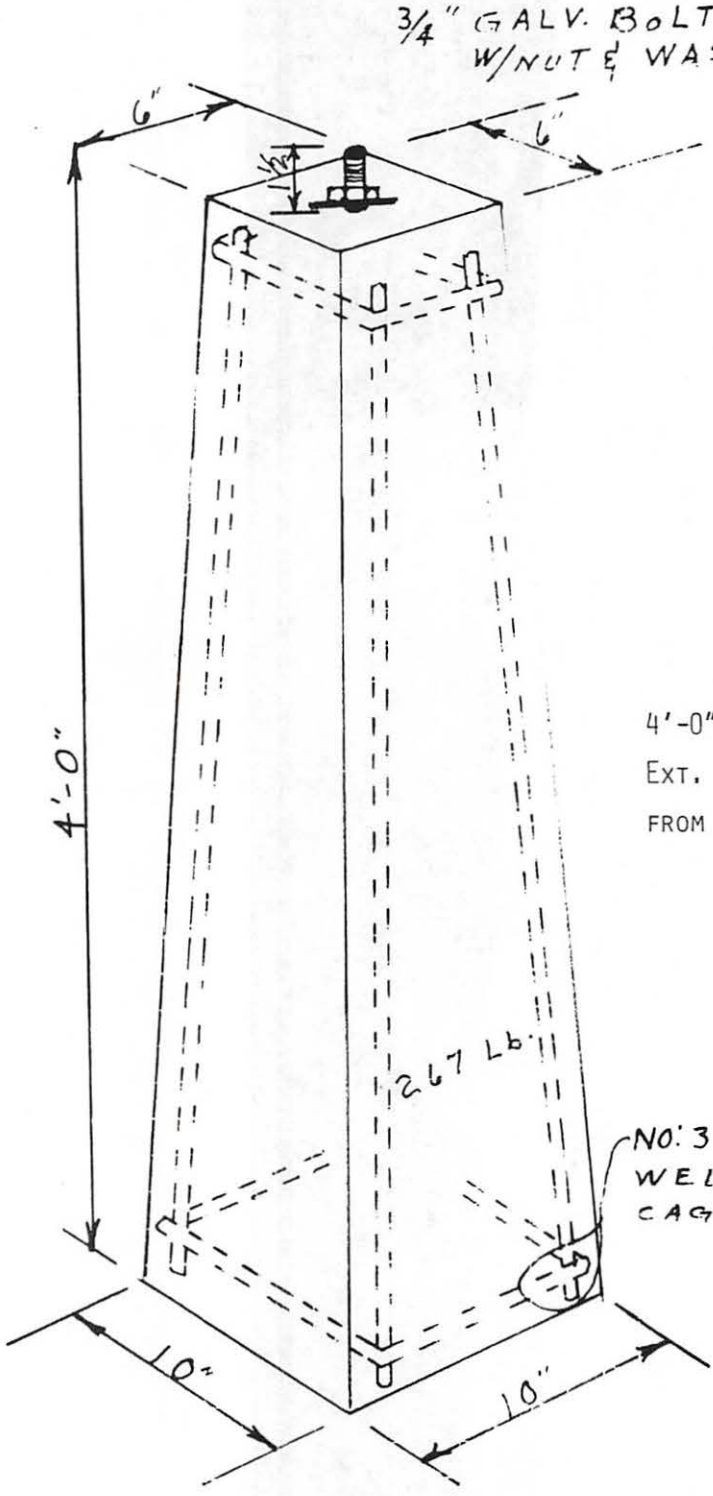
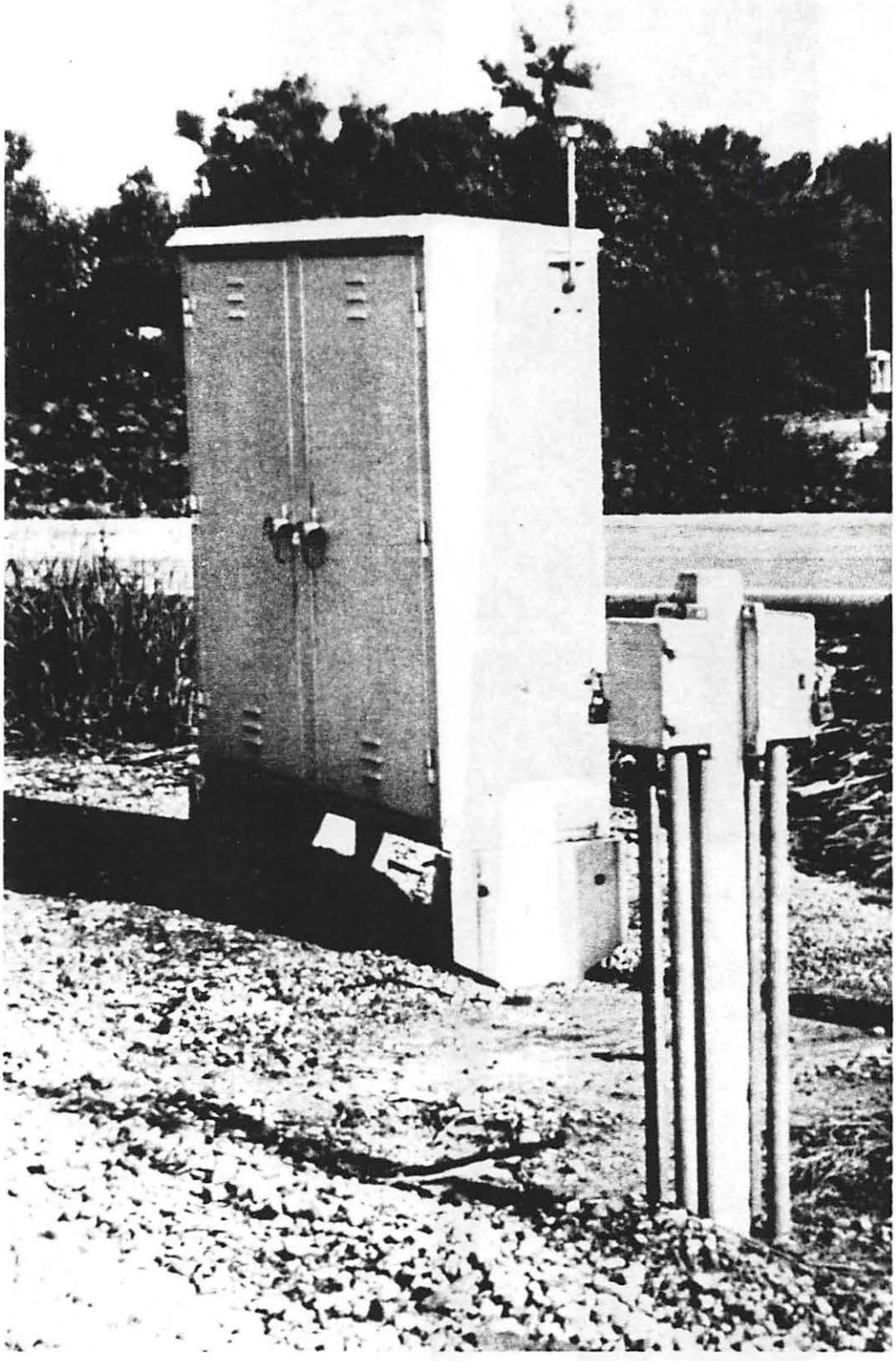
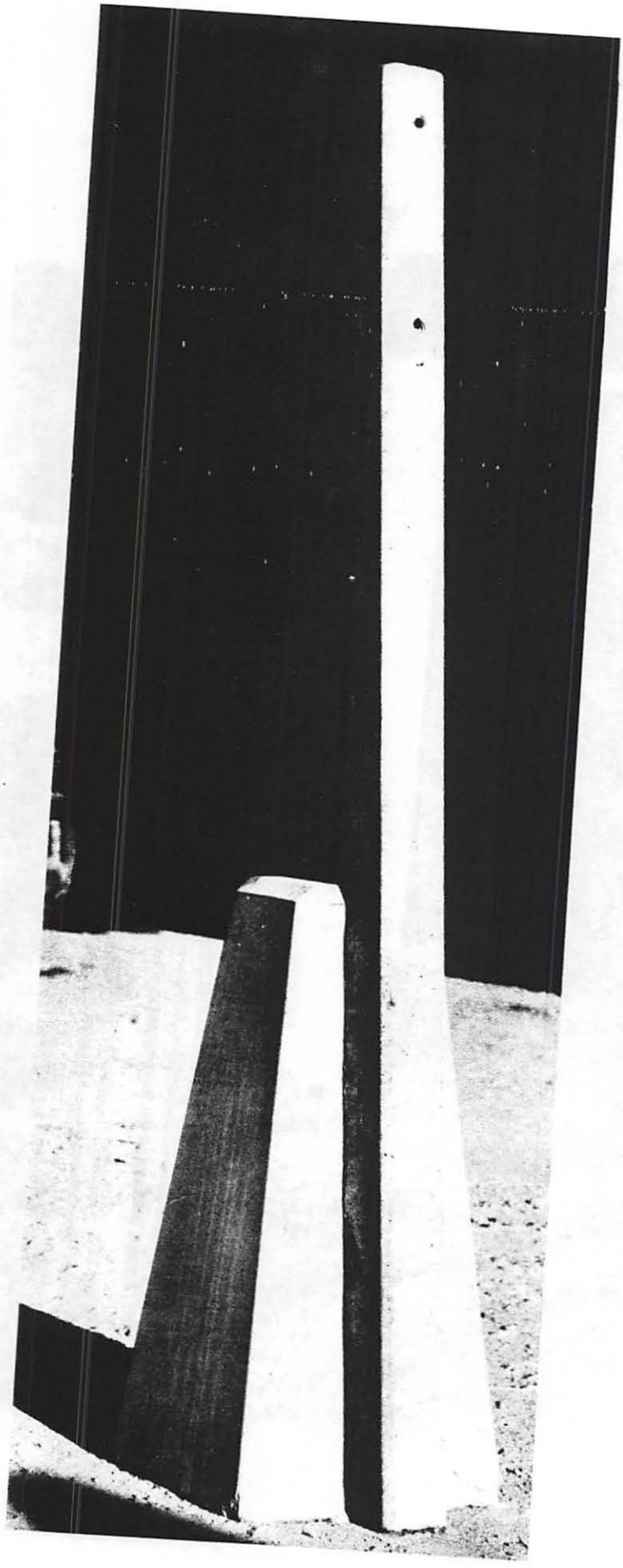


DP AP - 607 Foundation
Relay House Pier
6" Sq. Top to 10" Sq. Bottom
4'-0" high, weight 267 lbs. 3/4" Galv. Hook Bolts
Ext. 2" with nut and washer. Bolts can be exten
from 2" to 5" please specify

RELAY HOUSE PIER 4'-0"

DPAP.-607





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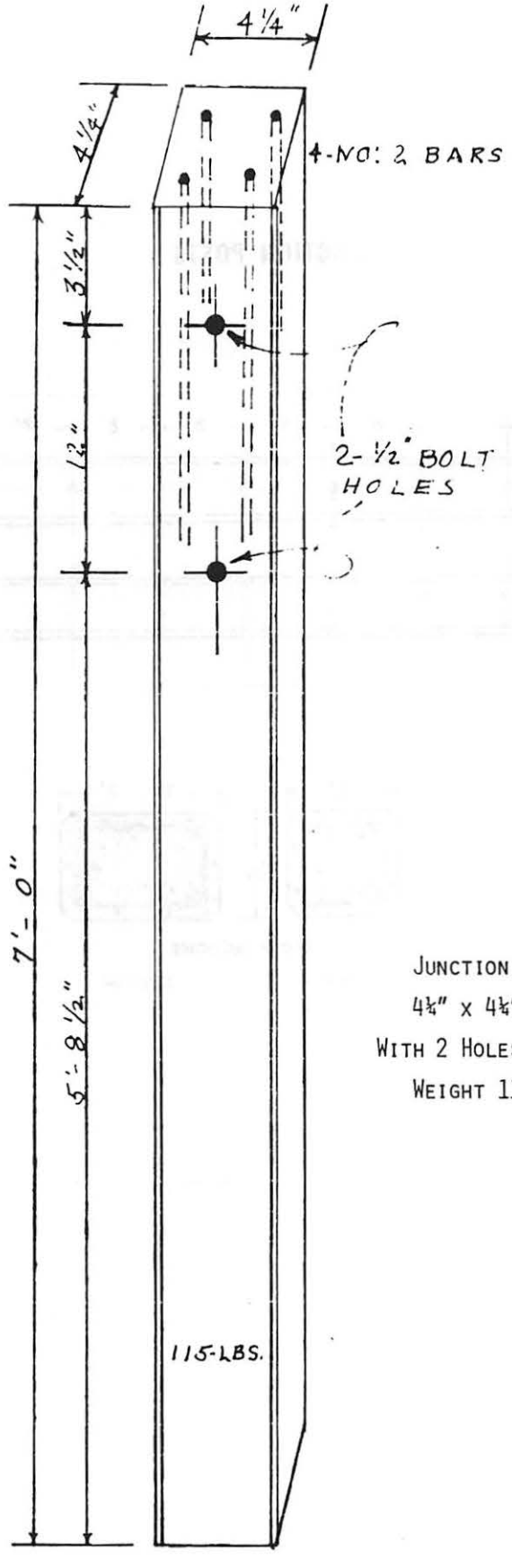

JUNCTION BOX POST
4¼" x 4¼" x 7'-0"
WITH 2 HOLES " DIA.
WEIGHT 115 LBS.

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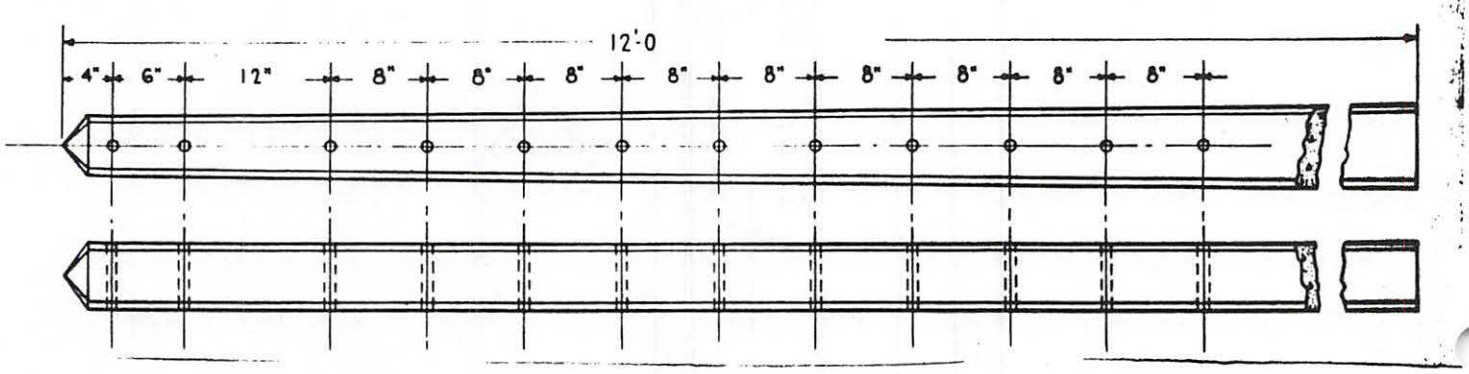
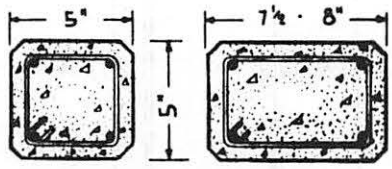
JUNCTION POSTS





CROSS SECTIONS

TOP BOTTOM